

**CALL FOR APPLICATIONS, BASED ON QUALIFICATIONS AND EXAMS,  
FOR ADMISSION TO THE RESEARCH DOCTORAL COURSES - 40TH CYCLE  
WITH ADMINISTRATIVE HEADQUARTERS AT  
THE UNIVERSITY OF CAMPANIA LUIGI VANVITELLI**

**Article 1**

***Establishment and call for applications***

1. The 40th cycle of Research Doctorate Courses with the administrative headquarters at the University of Campania *Luigi Vanvitelli* is hereby instituted, subject to the accreditation or the verification of the continued fulfilment of the accreditation requirements performed by the Italian Ministry of University and Research.
2. Pending the above-mentioned accreditation procedure for the 40th cycle, a call for applications, based on qualifications and exams, is hereby issued for admission to the following three-year PhD courses with administrative headquarters at the University of Campania *Luigi Vanvitelli*:
  - *Doctoral School in Human and Social Sciences*
    01. Doctoral course in Architecture and Cultural Heritage
    02. Doctoral course in Legal and Social Sciences for Innovation
    03. Doctoral course in Internationalisation of Legal Systems and Fundamental Rights
    04. Doctoral course in the Sciences of the Mind
    05. Doctoral course in History and the Transmission of Cultural Heritage
    06. Doctoral Course in Environment, Comparative Law and Transitions
  - *Doctoral School of Polytechnics and Basic Sciences*
    07. Doctoral course in Science and Engineering for the Environment and Sustainability
    08. Doctoral course in Industrial and Information Engineering
    09. Doctoral course in Mathematics, Physics and Engineering Applications
    10. Doctoral course of National Interest in Design for Made in Italy: Identity, Innovation and Sustainability
    11. Industrial doctoral course in Technologies for Resilient Living Environments
  - *Doctoral School in Life Sciences*
    12. Doctoral course in Translational Medicine
    13. Doctoral course in Biochemical and Biotechnological Sciences
    14. Doctoral course in Biomolecular Sciences
    15. Doctoral course in Clinical and Experimental Medical Sciences
    16. Doctoral Course of National Interest in Public Administration and Innovation for Disability and Social Inclusion
    17. Doctoral course in Public Health
    18. Doctoral course in Sciences of the Critical Area.
3. Doctoral courses will start on 1 November 2024, subject to the provisions of current internationalisation regulations and specific international agreements.
4. For each of the Doctoral Courses referred to in paragraph 2 above, a specific descriptive sheet (*Annexes 1 to 18*) is attached to the present call, which constitutes an integral part of this call and which indicates:
  - the Department administrative headquarters of the Doctoral Course;
  - the total number of positions offered in the call for applications and their type;

- the number of scholarships, their type (including the indication of scholarships with a restricted topic) and the indication of scholarships reserved for students who have obtained the necessary degree in international universities for the admission to the Doctoral Course;
  - any eventual *course of studies*;
  - the procedures for the execution of the admission tests;
  - the *web* pages of the Department and of the University where any useful information is available with reference to the academic programme, the calendar of the selection procedure and any useful notification for the candidates.
5. The number of positions and scholarships, as indicated in the forms attached to this call for applications, may be increased as a result of any additional financial resources of the University, regional and/or national and/or European and/or international, specifically NRRP, PON-RI, FSC, POR CAMPANIA; any funding will be adequately advertised on the **University website – [www.unicampania.it](http://www.unicampania.it)** at the page: *Research Doctorates*, at the following link: <https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca/iscriversi-ad-un-dottorato>.
  6. The number of scholarships may also be increased as a result of funding by public and/or private entities provided that the relevant agreement is signed no later than the deadline for submitting applications for participation in the selection procedure; in this case, such funding only increases the number of scholarships and does not affect the total number of positions planned under this call for applications for each Doctoral Course.
  7. In the event of equal merit, scholarships are awarded on a priority basis to deserving candidates with international protection status (with refugee status or beneficiaries of subsidiary protection) within the limit of one scholarship, either ordinary or reserved, for each Doctoral Course indicated in paragraph 2 of this article.
  8. The Administration reserves the right to revoke the competition notice, to suspend or postpone the competition tests or to suspend or not to proceed with the admission of the winners or to suspend or not to award all the scholarships provided for in the notice of competition, due to needs that cannot currently be assessed or foreseen. Specifically, the allocation of the positions made available for selection, as well as the awarding of scholarships based on NRRP funding, are subject to co-financing by the enterprises, ministerial approval and the signing of the Deed of Obligation relating to the project involved; if MUR does not provide the funding to cover the scholarships mentioned above, the scholarships are not awarded, with the consequent forfeiture of the positions awarded to the successful candidates. The allocation of positions as well as the awarding of INPS-funded scholarships are conditional on the positive assessment of the INPS Commission.
  9. This call for applications, which is drafted in Italian and translated into English, is published on the University of Campania *Luigi Vanvitelli*'s electronic notice board: [www.unicampania.it](http://www.unicampania.it) – **Online Notice Board**; this publication **has the status of an official notification to the interested parties for all the information it contains**, therefore the candidates are not going to receive any additional communication.  
This call for applications is also advertised electronically on the University *website*, [www.unicampania.it](http://www.unicampania.it) at the page: *Research Doctorates*, at the following link: <https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca/iscriversi-ad-un-dottorato>.  
The notification of this call for applications is also going to be published on the European Euraxess website and the website of the Italian Ministry of Universities and Research.

Any corrections are exclusively communicated by means of publication on a dedicated page within the University website, at the following address:

<https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca/iscriversi-ad-un-dottorato>.

10. The use of the male gender in this call for applications has no discriminatory character but is intended as gender-neutral in order to meet the needs of more immediate communication.

## Article 2

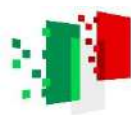
### ***General requirements for participation***

1. Applicants for admission to the PhD courses indicated in Article 1, paragraph 2 of this call are entitled to submit an application, regardless of age or nationality, if they possess one of the following qualifications:
  - a postgraduate or master's degree achieved pursuant to Italian Ministerial Decree number 270/2004 (replacing 509/1999);
  - a university degree with a minimum duration of four years, achieved in compliance with the previous regulations;
  - an academic qualification equivalent to an Italian degree with at least four years duration achieved at international universities.
2. Candidates who will obtain the qualification required for admission by the deadline of **31 October 2024** at the latest are also entitled to submit an application, provided that they undertake to self-certify that they have obtained the qualification by the same date, under penalty of forfeiting their registration; for these candidates, the weighted average of the marks obtained in the exams taken and the thesis submitted are assessed for the purposes of participation in the selection.
3. All candidates are admitted to the selection procedure subject to verification of the self-certified declarations in compliance with Italian Presidential Decree number 445/2000 and its subsequent amendments. The University is entitled, at any time during the proceedings, even after the start of the Doctoral Courses, to perform inspections on the authenticity of the declarations submitted and to request the presentation of the original documents. The Administration is entitled to order, at any time, with justified provisions, the exclusion of candidates from the competitive procedure or the forfeiture of admission to the Doctoral Course, for breach of the requirements prescribed by this call, without prejudice to the criminal liability resulting from false declarations. This measure is notified to the interested party with a registered letter with acknowledgement of receipt.

## Article 3

### ***Requirements for participation in the reserved positions***

1. Only university graduates from international universities who hold the qualification required by the preceding article 2, paragraph 1, or who are in the process of being awarded the qualification required by article 2, paragraph 2, are entitled to apply for the reserved positions listed in the forms annexed to this call for applications.  
The same cannot submit their application for participating in the competition for ordinary positions.



2. Candidates with a university degree completed in foreign countries that have not already been recognised as equivalent to a university degree in Italy, as specified in article 2, paragraph 1 above, are to request their degree's equivalence - **solely for the purpose of admission to the selection procedure for the Doctoral Research Course** - to the doctoral admission committee in compliance with the regulations in force. In this case, the application for participation has to be submitted, **under penalty of exclusion**, including the following documents which have to be presented using the online procedure, as described in article 4 below:
  - a) the qualification for admission to the PhD course, which is translated, in Italian or English, by the appropriate diplomatic or consular authorities or by a certified translator;
  - b) request for an assessment of eligibility from the admissions Committee.

You are advised that, in the event of admission to a Doctoral Course, it will in any case be necessary to apply to the competent diplomatic authorities in your country of origin for a certificate of equivalence in order to obtain a residence visa.

3. **For the holders of scholarships financed by foreign States or within specific international mobility programmes and the beneficiaries of EU and international collaboration projects**, the selection procedures are performed by international panels and/or European Union institutions within the framework of competitive funding procedures, which expressly provide for the enrolment of the successful candidates in the doctoral research programme. Candidates who have passed the selection tests, which have been established in this way, are admitted by right to the Doctoral Course.

#### Article 4

##### ***Applications for participation (deadline and procedure)***

1. The application to participate in the selection, complete with the required documentation, **under penalty of exclusion**, has to be compiled and submitted **exclusively** by electronic transmission, using the **dedicated on-line procedure**, which is available at: <https://pica.cineca.it/unicampania/dottorato40>, **starting at 2.00 p.m. (Italian time) on 3 June 2024 and ending no later than 2.00 p.m. (Italian time) on 2 July 2024.**

After this deadline, the system automatically closes and does not allow applications to be submitted.

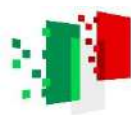
Applications transmitted by other means are not taken into consideration for the purposes of participation in the selection procedure.

Additions to the documentation after the deadline indicated above are not admitted under any circumstances.

Before the final closing of the application, candidates are required to print out the application, sign it and upload the PDF into the procedure, attaching a copy, in colour, of a valid identity document, the research project and any other relevant documentation; if access is made through SPID, no signature is required.

With the definitive closure of the on-line procedure, the application is automatically forwarded to the University, therefore, no delivery or dispatch of paper material to the Offices is required.

2. Applicants are invited to complete their application well in advance of the deadline of this notice. It is the candidates' responsibility to check that the procedure has been completed in the correct manner. No claims will be accepted for any malfunctioning of the computer system due to technical problems and/or overloading of the communication line and/or application systems.



3. Documents, qualifications, the research project and a colour photocopy of a valid identity document have to be attached to the application in electronic PDF format.  
It is the responsibility of the candidate to verify the correct uploading of the required information, bearing in mind that only the qualifications that have been correctly attached to the application form will be assessed for the purposes of participation in the selection procedures. The Administration accepts no liability if it is impossible to read the submitted documents in electronic format as a result of damaged files or folders.
4. Applicants submitting an application for admission to more than one PhD course are required to submit as many applications as the number of courses chosen, attaching the required documentation for each application.
5. For all legal purposes, the application is to be considered as a self-certification, pursuant to articles 46 and 47 of Italian Presidential Decree 445/200, as amended, of the data contained therein and the documents attached to the same.
6. In order to participate in the competition, **candidates with Italian citizenship** are required to pay - **under penalty of exclusion from the selection procedure**, no later than the deadline for the submission of applications - EUR 30.00 (thirty euro), as a participation contribution for the admission tests to the PhD Course. The payment has to be executed using the same electronic procedure using the pagoPA system.  
The contribution mentioned above is not refunded under any circumstances.  
Candidates who pay the application fees using methods different from the methods described above or outside the terms indicated above are not admitted to participate in the selection procedure.  
**Foreign citizens who do not hold Italian citizenship are exempt from paying the contribution specified above.**
7. Candidates are **excluded** from participation in the admission procedure if:
  - they do not meet the general admission requirements specified in article 2 of this call for applications;
  - they submit an application that is not supported by:
    - a copy of the identity document and the research project;
    - the payment of EUR 30.00 (thirty euro) as a contribution for participation (*for Italian candidates only*);
    - the academic title translated in compliance with the provisions of article 3 above (for candidates in possession of international qualifications only);
    - the request for the admission committee's assessment of the qualification if this has not already been declared equivalent (*for candidates holding an international qualification only*).

## Article 5

### ***Documents to be attached to the application***

1. In order to be assessed, candidates are required to attach documents, the thesis and other qualifications referred to in article 6 below to the application for participation in the selection. These documents have to be either certified copies or simple copies, the conformity of which to the original is declared by the candidate in the online application.



2. **Candidates with refugee status or beneficiaries of subsidiary protection are required to attach documentation proving temporary protection or a residence permit for international protection (political asylum, subsidiary protection, humanitarian reasons).**
3. For participation in the selection procedure for ordinary positions, deeds and documents drafted in Italian, English, French or Spanish are permitted.  
The deeds and documents written in a different language are required to include a translation into Italian certified as conforming to the corresponding foreign text by the relevant Italian diplomatic or consular authority, or by a certified translator, or by a declaration in place of an affidavit.
4. For participation in the selection procedure for reserved positions, the qualification required for admission has to be translated into Italian or English by the relevant diplomatic or consular authorities or by a certified translator.  
Additional documents and qualifications that qualify for assessment must be produced in Italian, English, French or Spanish and self-certified in compliance with Italian law.  
Thereafter, within 60 days of the publication of the general classification of merit list, the winners are required to produce the Declaration of Value of the qualification necessary for admission.

## Article 6

### ***Admission tests and qualifications eligible for assessment***

1. The admission tests to the PhD courses are designed to determine the candidate's ability to undertake scientific research and the candidate is also required to demonstrate a good knowledge of the foreign language indicated in the schedule of each PhD course attached to this call for applications. During the interview, non-Italian-speaking candidates may also be required to know the Italian language if this is provided for in the individual doctoral course schedule annexed to this call.
2. The selection procedure for both types of positions, ordinary and reserved, involves the assessment of qualifications, including the mandatory submission of a research project, in compliance with the format attached to this notice (Annex A), as well as an interview.
3. The research project has to be relevant to the SSDs characterising the PhD course and be related to the compulsory research topics specified in the sheet of each course (attached to the call for applications). Relevance to the specific topics results in the awarding of an additional mark as specified in paragraph 7, letter g of this article.

The **research project** specified above, not exceeding 800 words, has to include:

- a) The title of the project
- b) Relevance to the SSDs characterising the PhD course
- c) The compulsory Research Topics, if applicable
- d) The objectives of the project, related to the characterising SSDs of the PhD Course and/or to the compulsory research topics specified in the attached files of each PhD Course;
- e) The state of the art
- f) The methodology and related time frame over the 3 years of the doctoral programme
- g) The expected results and possible risk strategies
- h) The estimation of the period abroad
- i) The degree of organisational and financial feasibility

- l) The involvement of Italian and/or international research structures and/or researchers, with relevant motivations
- m) The involvement of enterprises \*
- n) The essential bibliography up to a maximum of 12 titles (in addition to the 800 words).

If the candidate is admitted to the PhD course, the research project submitted by the candidate does not normally represent a binding work programme; On the other hand, if a candidate is admitted to the PhD course with the award of a restricted scholarship, funded by an external public or private Entity, following the approval of a specific research project, the work programme is considered binding for the candidate, subject to any changes, during the course of the research, agreed in advance (with the supervisor and the Faculty Board of the PhD course) and authorised by the funding Entity.

- 4 The **calendar of the selection procedure is published on the Department's website** and indicated in the files of each Research Doctoral Course annexed to the notice, by the President of the admissions Committee.

The publication of this call and the information contained in the annexed sheets constitute an effective notification for all purposes. Therefore, candidates who have not been notified of an exclusion from the selection procedure are required, without further notice, to take the examination test in compliance with the specified timetable.

Any changes to the date and time of the selection tests are published on the same Department website indicated in the forms attached to each PhD Course.

- 5 The admissions Committees referred to in article 7 below score 100 points for the assessment of candidates as follows:

**Qualifications:** **maximum 40 points**  
*(including the research project: maximum score of 12 points)*

**Interview:** **maximum 60 points**

The minimum mark for admission to the interview (for both the reserved and the ordinary selection procedures) is set at a minimum of 12 points.

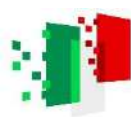
The minimum mark required to pass the interview (for the ordinary competition only) is set at a minimum of 42 points.

6. The Committees exclude, without any evaluation of qualifications, candidates who have submitted a research project that is not relevant to the SSDs characterising the PhD Course as indicated in the attached files of each Doctoral Research Course.

7. For the **assessment of qualifications**, without prejudice to the autonomy of the admissions Committee, the following documents are eligible for assessment in relation to both types of positions, ordinary and reserved:

- a) the *entire thesis* (or, for undergraduate candidates only, a draft of the thesis currently being drafted countersigned by the thesis supervisor and stamped by the relevant department) assessed in terms of content and correspondence in relation to the PhD or at least one of the SSDs in which the candidate is participating

**maximum 6 points awarded**



- b) the **graduation mark** assessed according to proportional parameters (or equivalent characteristics for the reserved ranking); or, *if this is not an option, the weighted average mark of the examinations taken* (for undergraduates graduating from Italian universities within the deadline of December 22 2023)

**maximum 10 points awarded**

- c) **monographs and publications in peer-reviewed journals** or collections which can be assessed if they are of specific relevance to the Sector(s) that are the subject of the PhD and have already been published or have been certified by the publisher as accepted and soon to be published;

*Patents* that can be assessed if they are specifically relevant to the SSD(s) covered by the PhD programme

**maximum 6 points awarded**

- d) post-graduate qualifications, including: **specialisation diplomas, specialisation courses, and master's degrees** with a duration of at least one year issued by universities or qualified research agencies, which can be assessed if they are compatible with the SSD(s) of the PhD

**maximum 2 points awarded**

- e) collaboration grants for research activities which are assessed if they are compatible with the SSD(s) of the PhD;

**scholarships** that are eligible for assessment if they are awarded following selection procedures carried out exclusively by Italian or foreign universities or research institutes of primary and proven relevance;

**periods of study and research abroad** (including time spent on an Erasmus exchange programme) which are assessed if undertaken at universities or qualified research institutes for a continuous period of no less than 3 months;

**awards from National and International Scientific Societies** that are assessed if they are compatible with the SSD(s) of the PhD;

**maximum 2 points awarded**

- f) other documents that are considered useful, by the admissions committee, for a comprehensive assessment, such as:

- *participation in research activities* which are assessed if proven by a letter of reference from a university lecturer with ASN commission criteria or a qualified international researcher;

- *appointments as an expert in the specific subject* under consideration, if these appointments were established before the date of issue of the call for applications;

**maximum 2 points awarded**

- g) the **Research Project**, in short form (not exceeding 800 words) drafted in compliance with paragraphs 2 and 3 of this article and the format (Annex A)

**maximum 12 points awarded**

subdivided as follows:

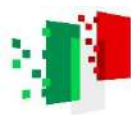
- project relevant to the SSDs characterising the PhD Course

**maximum 8 points awarded**

- project relevant to the SSDs characterising the PhD Course and which specifically addresses one of the compulsory research topics indicated in the sheet of each PhD Course attached to the call for proposals

**Maximum additional 4 points awarded**





For candidates who graduate before **31 October 2024**, *the weighted average mark of the exams taken*, which replaces the graduation mark referred to under letter *b*), is calculated:

- multiplying the grade of each exam taken at the date of submission of the application by the respective number of credits (30 with honours is considered as 30);
- adding up all the results that have been achieved;
- dividing the result by the sum of the useful credits (the credits of the exams with marks);
- multiplying the average obtained by 110 and dividing the result by 30 (resulting in a mark expressed in hundredths).

The weighted average is not required for students graduating from international universities.

8. Only candidates graduating from international universities and Italian candidates residing or domiciled outside the Region may participate in the interview, concerning the qualifications and the research project submitted, by video conference via Skype (or other similar channels) subject to verification of the applicant's identity, which may be verified by showing a valid identity document, a colour copy of which has been attached to the application, the interview is public and will be conducted on the appointed day and time and in the presence of one or more candidates who voluntarily wish to be present.

It is forbidden to make audio/video recordings of the interview remotely through the computer platforms used. It is also forbidden for anyone to broadcast the audio/video recording made by means other than the platform.

A candidate's absence on the day and time of the interview is considered a withdrawal from the selection procedure, regardless of the cause.

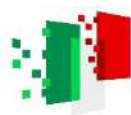
9. For the **assessment of the interview**, without prejudice to the autonomy of the admissions committee, for both types of positions, ordinary and reserved, the **assessment criteria** are as follows:

- |   |                                  |
|---|----------------------------------|
| a) clarity of presentation  | <b>maximum 10</b> points awarded |
| b) skills of synthesis  | <b>maximum 5</b> points awarded  |
| c) <i>critical thinking and adequate knowledge of the subjects related to the titles presented</i>  | <b>maximum 20</b> points awarded |
| d) <i>the ability to conduct part of the interview in the foreign language</i> chosen from the list specified for each PhD course attached to the call for applications | <b>maximum 5</b> points awarded  |
| e) <i>the ability to answer in-depth questions related to the presented research project</i>  | <b>maximum 20</b> points awarded |

## Article 7

### **Admissions Committees and their obligations**

1. For admission to each Research Doctorate Course, an admissions Committee is appointed, by Rector's Decree, - within seven days from the deadline for the submission of applications for admission to the selection procedure - which is composed in compliance with the provisions of article 22 of the University Regulations containing the rules for the Research Doctorate referred to in the introduction.

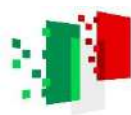


2. The composition of the individual Committees is published on the University *website*: [www.unicampania.it](http://www.unicampania.it) at the page: *Research Doctorates*, at the following link: <https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca/isciversi-ad-un-dottorato>.
3. The individual admissions Committees are in charge of, in addition to other duties, the following:
  - posting of the selection calendar on the Department's *website* indicated in the attached PhD Course Sheets, by the date indicated in the cited sheets;
  - publishing the results of the assessment of the qualifications, which have to be completed at least three working days before the interview;
  - the prompt publication of the results of each assessment (qualification assessment and interview) on the Department's website indicated in the attached PhD Course sheets, in compliance with the timetable of the selection calendar.
4. The Committee proposes the allocation of the type of scholarship for each candidate based on the assessment of the research project, the assessment of the qualifications, and the interview, in compliance with article 6 specified above, as well as the possession of specific requirements necessary for the type of funding or the status of refugee or beneficiary of subsidiary protection. It will not be possible to award NRRP doctoral scholarships to doctoral students who have renounced the aforementioned scholarships for the 38th cycle and 39th cycle in application of Ministerial Decrees no. 629 and 630/2024; based on what has been declared in the application.
5. The Committee proposes for the possible awarding of each successful candidate who is not a winner, the type of scholarship with a free or restricted theme in consideration of the evaluation of the research project, the evaluation of the qualifications, the oral test, pursuant to Article 6 above, as well as the possession of specific requirements for the type of funding.
6. If merit is equal, scholarships are awarded with priority to deserving candidates with international protection status (with refugee status or beneficiaries of subsidiary protection) within the limit of one scholarship, ordinary or reserved, for each Doctoral Research Course.
7. The work of the Committee is scheduled to start, **no later than 09 July 2024**, with the holding of the preliminary meeting, in order to establish the criteria and procedures for the assessment of the selection examinations, in order to guarantee the proper and transparent comparative assessment of the candidates, and the work has to be concluded **no later than 26 July 2024**.

## Article 8

### ***Approval of the general ranking list of merit***

1. The Rector's decree establishes the general ranking list of merit for each selection, both ordinary and reserved, formulated in descending order of the total score of each candidate and indicating the type of grant awarded. If there is an equal number of points between two or more candidates, the deserving candidate with international protection status (with refugee status or beneficiaries of subsidiary protection) has priority within the limits of one scholarship, ordinary or reserved, for each Doctoral Research Course; if there is further parity, the candidate with the youngest age has priority.  
The successful candidate who does not accept the type of scholarship awarded is not eligible for other types of scholarships on the same PhD Course and forfeits admission to the Course.



2. The University scholarships allocated to the reserved list, if not assigned, are budget savings, to be allocated for the same purposes of internationalisation of the PhD courses, in relation to the activation of the next cycle to fund the positions of the reserved list.
3. The general ranking lists of merit referred to above relating to individual selection procedures for admission to the Research Doctorate Courses - 40th cycle - are approved by Rectoral Decree **within 30 days of the completion of the work of the admissions Committees, and are published on the University website – [www.unicampania.it](http://www.unicampania.it)** at the page: *Research Doctorates*, at the following link:  
<https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca/iscriversi-ad-un-dottorato>  
with effect from **6 September 2024**.  
This posting serves as official notification to interested parties, **therefore, no personal communications are sent to candidates.**

## Article 9

### ***Admission of public employees and medical trainees***

1. Public employees admitted to a PhD course benefit, for the normal duration of the course, from the leave provided for by the collective contract or, if employed under public law, from extraordinary leave for study purposes, compatibly with the needs of the administration, pursuant to article 2 of Italian Law dated August 13 1984, number 476, with or without grants and unless explicitly waived, only if they are enrolled for the first time in a PhD course, regardless of the subject area. Without prejudice to the right to the *budget* for the research activity carried out in Italy and abroad referred to in article 9, paragraph 4 of Italian Ministerial Decree 226/2021.
2. Without prejudice to the provisions of article 8, paragraph 1 of Italian Ministerial Decree 226/2021, the University authorises the joint attendance of the Doctorate Course and a medical specialisation course, subject to the following conditions:
  - a) compatibility, also in consideration of the distance between the facilities, of the activities and commitment envisaged by the specialization school and the PhD course, certified by the board of the medical specialization school and by the PhD board;
  - b) incompatibility between the PhD scholarship and the fees, however denominated, received in relation to the activities of the specialization school.
3. In the cases of joint attendance referred to in this article, the request for reduction of PhD activities is accepted by the faculty of the PhD course, after a positive evaluation of the consistency of the research activities, already carried out in the medical specialization course, with the PhD project. For the purposes of accepting the application referred to in this paragraph, the opinion of compatibility, expressed by the board of the specialization school, of the PhD project with the didactic purposes of the same specialization school is also required. If the application referred to in this paragraph is accepted, the PhD course has a duration of no less than two years.
4. Physicians undergoing specialised training, by virtue of the incompatibility provided for in paragraph 1, letter b) of this article and article 7, letter b) of Italian Ministerial Decree 226/2021, are not entitled to receive a doctoral fellowship concurrently with other compensation, however, designated, collected in relation to the activities of the specialisation school, and therefore if they hold a doctoral post with a fellowship, they are entitled to receive it only at the conclusion of the specialisation course.

5. The provisions of this article do not apply to positions with a scholarship with a compulsory topic, for which reference is made to article 13, paragraph 7 of this call for applications.

#### Article 10

##### ***Admission of employees of enterprises to reserved positions (the PhD Executive programme)***

1. In order to encourage interaction with enterprises, the University activates Industrial Doctoral Courses with the possibility of allocating a share of the available positions, based on specific Agreements, to employees of enterprises engaged in highly qualified activities, who are admitted to the Doctoral Course after passing the corresponding selection procedure.  
The places reserved for the PhD Executive programme are listed in the attached description of each course.
2. The enrolment of the employees of enterprises in Executive PhD positions is not compatible with the utilisation of the scholarship.
3. On condition that the financial sustainability of the Doctorate Course is guaranteed based on the minimum number of scholarships required for its activation, the reservation of positions without a scholarship is exceptionally allowed for employees of enterprises in the framework of courses with specific programmes designed to foster relations with enterprises and the productive world.

#### Article 11

##### ***Incompatibility and simultaneous registration***

1. Registration in the PhD Courses is incompatible with simultaneous registration in other PhD Courses.
2. The simultaneous enrolment in a Doctoral Research Course and in a Bachelor's or Master's Degree Course or a non-medical specialisation course may be authorised by the Faculty Board subject to verification of the compatibility of the obligation to attend with the existence of the conditions for the acquisition of the knowledge and skills required to achieve the educational objectives of each programme.
3. The simultaneous enrolment in a Doctoral Research Course and a medical Specialisation Course is permitted. Please refer to article 9 of this call for applications for joint attendance.

#### Article 12

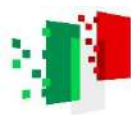
##### ***Enrolment of the successful candidates***

1. For the purposes of admission to the Doctoral Research Course, **successful candidates**, with or without a scholarship, are required, **starting at 2.00 p.m. on 6 September 2024 and no later than 2.00 p.m. on 11 September 2024**, to submit an application for enrolment and submit the relevant declarations, exclusively in compliance with the **operating procedures that are going to be published by 6 September 2024 on the University website – [www.unicampania.it](http://www.unicampania.it)** at the page: *Research Doctorates*, at the following link:  
<https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca/isciversi-ad-un-dottorato>.

**Candidates who do not proceed to enrol by the established deadline are automatically and effectively considered to have forfeited their right to enrol**, and the vacancies are assigned to candidates with a useful position in the ranking list of merit.

**The ranking lists of merit will then be scrolled**, in order to assign the vacant positions, according to the terms specified in the following table:





	<i>date of publication of successful candidates who are eligible for scrolling</i>	<i>enrolment terms</i>
<b>First scroll</b>	<b>16 September 2024</b>	<b>from 16 September 2024 within 2 p.m. on 17 September 2024</b>

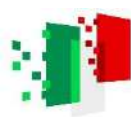
- After the deadline of 18 September 2024, additional scrolling of the ranking lists of merit will be performed in the event of the withdrawal of successful candidates or if additional resources become available, within 30 days of this deadline.
- Starting on 18 October 2024, any doctoral positions that become available are discontinued; these positions remain available and used to activate the subsequent cycle.
- Successful candidates who complete their degree by the deadline of 31 October 2024, are required to self-certify their graduation by the specified deadline at the following e-mail address: [immatricolazione.dottorandi@unicampania.it](mailto:immatricolazione.dottorandi@unicampania.it).
- If a candidate is successful in more than one ranking in different Doctoral Research Courses, the candidate is required to exercise the option for only one PhD Course.
- Candidates who were found to be **eligible but who were not successful** are invited to consult **the information on the web page** specified above in order to obtain useful information on any changes in the general ranking lists of merit.

### Article 13

#### **Scholarships, taxes and contributions**

- The scholarships, which can also be financed with the help of several sources of funding, have a total duration of at least three years.  
They are allocated, for the entire duration of the course, to PhD course participants according to the order defined in the general ranking list of merit and are renewed, annually, after positive verification of the completion of the programme of activities planned for each year.  
The procedures for renewal are established by the Faculty Board and codified in the course regulations. If the scholarship is not renewed, or if the student renounces it, the unused amount of the scholarship is reinvested by the University for the funding of PhDs.
- The amount of the scholarship, for the academic year 2023/2024, is equal to EUR 16,243.00 and it is allocated in monthly instalments, deferred according to the attendance and the study and research activities performed, with the exception of PhD students with foreign citizenship, for whom the allocation is always made in monthly instalments in advance.  
The disbursement of the scholarship to foreign candidates will be conditional on the issuance of an entry visa by the competent Italian diplomatic representation in their own country and on obtaining a tax code. Therefore, the application for the tax code should be submitted as a priority at the Italian Embassy in the country of origin at the same time as the visa application, in order to shorten the time of issuance. Foreign winners will receive operating instructions via email regarding all the procedures for obtaining the tax code.

3. The increase in the scholarship is established at 50%, for a total period not exceeding twelve months, for carrying out research activities abroad authorized by the faculty board. This period may be extended up to a maximum total of eighteen months for doctorates jointly implemented with foreign entities or activated pursuant to article 3, paragraph 2 of Italian Ministerial Decree 226/2021.
4. The scholarship for attending the PhD is compatible with other personal income received in the calendar year of greater use of the amount up to the limit of the scholarship itself. For the purpose of verifying this threshold, all personal income deriving from work activities is considered, with the exclusion of the amount of the scholarship or any income support benefits paid according to the scholarship (such as the maternity allowance).
5. If the candidate has already received a scholarship for a PhD course, he/she cannot apply for a second time.
6. Scholarships may not be combined with other scholarships for any reason whatsoever, except for those awarded by national or foreign institutions to supplement, stays abroad, training or research activities of scholarship holders abroad.  
Scholarships for PhD attendance are compatible with Erasmus scholarships.
7. For positions awarded under NRRP with compulsory topics it is not possible to override the acceptance of the scholarship, therefore, if the successful candidate renounces the scholarship, he/she automatically forfeits admission to the Doctoral Course. If the withdrawal or forfeiture happens during the term of the doctoral programme, the programme is automatically terminated and the PhD student concerned is obliged to reimburse the monthly payments received, as provided for by the University Regulations governing Doctoral Research Programmes and by the regulations governing specific funding.
8. The doctoral student is obliged to repay, even if he/she withdraws from the course, the instalments of the grant already received only if he/she exceeds the income limit, as per paragraph 4 above, or if he/she is involved in one of the cases of incompatibility provided for by the regulations in force, by the University Regulations governing Doctoral Programmes and by the specific regulations provided for by the funding entities in the case of grants with a compulsory topic.
9. The PhD scholarship is subject to the payment of separately managed INPS social security contributions, pursuant to article 2, paragraph 26, of Italian Law number 335, to the extent of two-thirds paid by the administration and one-third by the holder of the scholarship. PhD students benefit from the protections and related rights.
10. For the performance of research activities in Italy and abroad, in addition to the scholarship, the doctoral student is guaranteed a budget, appropriate to the type of Doctoral Course and the specific discipline, and in any case no less than 10% of the amount of the scholarship for the first year of the course, and 20% of the amount of the scholarship from the second year, with the exception of doctoral courses of national interest for which the budget for each year of the course is always 20%. The budget referred to above is also guaranteed for doctoral students without a scholarship and is allocated to the department where the doctoral course is administered in order to support the doctoral student's research and training activities in conjunction with the start of the courses.



11. If the funds attributed for carrying out research and training activities of the PhD students of the third year have not been completely used, the PhD Coordinator can exceptionally authorise the missions of PhD students of the first year or PhD students of the second year for which funds have not yet been allocated.
12. The PhD student is authorized by the coordinator, with the approval of the supervisor, for the following expenses:
  - a) doctoral student missions in Italy and abroad, registrations for conferences, seminars, etc;
  - b) research supplies that doctoral students use for research (for example: chemical reagents, electrical and electronic equipment, stationery, etc.);
  - c) goods/equipment (for example: hardware, software, scientific equipment). The assets must be inventoried and at the end of the PhD cycle will remain the property of the University. Under no circumstances is it permitted to purchase goods/equipment for personal use (for example: mobile phones, tablets, etc.);
  - d) publishing costs;
  - e) research-specific training (for example: language courses, higher education courses, etc.);
  - f) events in which doctoral students are directly involved as organisers (for example: PhDay);
  - g) if there are unused funds available, the Faculty Board may decide to make use of them for the payment of the travel expenses of foreign committee members for the discussion of the thesis, which involves the award of an additional foreign title to the doctoral student (for example: *doctor europaeus*).
13. Doctoral students authorised abroad for research stays during which they benefit from the increase of the scholarship are also entitled to reimbursement for missions in order to promote international exchanges.

#### Article 14

##### ***One-off contribution granted to enrolled students residing abroad and to Italians who are not residents in the Region of Campania***

1. A "one-off" contribution is provided for the payment of accommodation expenses. This contribution will be allocated, as a priority, to enrolled international students residing abroad or outside the Region of Campania, without the student submitting a specific request; subsequently, based on financial availability, to enrolled Italians not residing in the Region of Campania, who have been classified on a position with no scholarship, provided that they have presented a request at the time of submitting their application by selecting the item "Request one-off contribution".
2. The minimum amount of the "one-off" contribution is defined based on the number of eligible students up to the amount of the budget allocated for this purpose, while the maximum amount per student may not exceed EUR 5,000.  
If a student withdraws from the PhD course during the first year of attendance, this contribution has to be refunded.

#### Article 15

##### ***Tax for the right to university studies***

1. **No later than the deadline for enrolment**, Italian and international students, with or without a scholarship, are required to pay the virtual tax stamp of EUR 16.00 and the regional tax for the right to university studies, for the academic year 2023/2024, determined based on the student's

financial situation, calculated according to the Equivalent Economic Situation Indicator (ISEEU) related to the right to university studies.

2. The **ISEEU statement** relating to the family unit **must be requested from the competent offices responsible for issuing certification, at least 10 days before the start of enrolment**, in order not to be automatically placed in the highest income bracket.
3. With subsequent notice on the University website – [www.unicampania.it](http://www.unicampania.it) at the page: Research Doctorates, at the following link: <https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca/iscrivarsi-ad-un-dottorato> the income brackets and modalities for the presentation of ISEEU statements are going to be published.

## Article 16

### ***Obligations and Rights of PhD students***

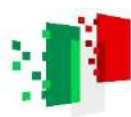
1. The PhD course requires an exclusive and full-time commitment, without prejudice to the provisions of Article 12, paragraph 4 and Article 10, paragraph 2, letter *b*) of the Italian Ministerial Decree 226/2021. PhD students, with or without a scholarship, are required to:
  - carry out the training course approved by the Faculty Board with exclusive commitment;
  - regularly attend the course activities provided by the Faculty Board;
  - participate in common courses within the PhD school;
  - present oral or written reports on the activities and research carried out;
  - draw up personal registers of the activities referred to in paragraph 3 below;
  - comply with whatever else is approved by the faculty board or is provided for by the regulations for the implementation of specific funds to cover the PhD scholarship;
  - to write, the PhD dissertation with original contributions at the end of the course.
2. PhD students must acquire at least 60 credits each year, distributed according to the training program agreed upon with the tutor and approved by the Faculty Board, consistent with the training offer advertised annually on the website of the department concerned on the PhD page. Where required by specific funding projects from which individual courses can benefit, the above credits per hour will be converted into training hours that the PhD students are obliged to attend.
3. The activities of doctoral students must be illustrated in personal records and/or in specific IT platforms and include:

course activities, research activities, personal study, bibliographic research and research in archives, ongoing verifications, participation in seminars, courses and conferences, activities at buildings outside the University (other universities, research entities, companies), in Italy and abroad, any supplementary teaching activities and tutoring activities and any other activity arranged by the Faculty Board that leads to the completion of the educational programme. **It is absolutely forbidden to carry out research activities related to the PhD within private bodies or structures, if not authorised by the Faculty Board. Violation of this rule results in forfeiture of the doctoral research course.**

4. **In addition to the provisions of this call for applications and the University Regulations governing PhD programmes, PhD recipients are required to comply with the specific provisions stipulated by the funding entities, including the compulsory period to be spent in entities/enterprises in Italy and abroad.**

5. The legitimacy of the different activities carried out by the PhD students is certified by the Coordinators based on the indications provided by the supervisor and by the co-supervisor/s.
6. At the end of each year of the Course, the Faculty Board, based on a detailed report on the activities and research carried out by each PhD student, decides on the admission to the following year or proposes to the Rector the exclusion from the course.
7. For proven reasons, the PhD student may ask the faculty board for an extension of the time allowed for the presentation of the PhD thesis, for a maximum duration of twelve months, without further financial charges.
8. The Faculty Board may decide to extend the duration of the PhD course for a period not exceeding twelve months, for justified scientific needs linked, among other things, to needs in the context of co-safeguards lasting more than three years. or the need for a proven increase in scientific productivity, (for example: for the submission or outcome of a patent application as well as in the event of an extension of the duration of a research project of significant national or international interest); in cases of extension, the corresponding duration of the scholarship must be ensured with funds from the University budget, therefore the motivated proposal for extension of the faculty board will be submitted for the approval of the Board of Directors for the related financial verification. The beneficiary PhD students are obliged to comply with everything resolved by the faculty with reference to the extended training course, including carrying out the course activities.
9. For proven reasons provided for by current legislation such as maternity, serious illness and civil service, PhD students may request the suspension of the course for a maximum duration of six months. No scholarship or other equivalent funding is envisaged for the duration of the suspension.  
The Faculty Board, following communication from the course coordinator, takes note of the suspensions. Suspension of more than thirty days for one of the above-mentioned reasons involves the obligation to fully recuperate the periods of interruption of the activity and, therefore, in such cases, the duration of the educational programme is extended for a period corresponding to the period of the interruption.
10. The extension and suspension periods referred to in paragraphs 7, 8 and 9 of this article may not exceed a total of eighteen months, except in specific cases provided for by law.
11. Without prejudice to the interventions for the right to study as per Italian Legislative Decree dated March 29 2012, number 68.
12. Without prejudice to the application of the rules for the protection of parenthood referred to in the decree of the Italian Minister of Labour and Social Security dated July 12, 2007, published in the Italian Official Gazette of October 23 2007, number 247, PhD students on leave retain the right to the scholarship that will be paid at the end of the suspension period, namely the resumption of the course attendance up to the total duration of the scholarship itself.
13. It is the responsibility of the PhD Course Coordinator to promptly notify the competent office of the interruption of the PhD student's activity for the consequent administrative measures.
14. The PhD student may be authorized by the faculty board to carry out paid activities that allow them to acquire skills relating to the educational environment of the PhD, after evaluating the compatibility of the same activities with the successful performance of the training, teaching and





research activities of the PhD course. In such cases, the maximum income limit, which the PhD student can receive as compatible with the scholarship, is equal to the amount of the scholarship itself.

15. For each PhD student, the faculty board normally provides for the carrying out of research and training activities, consistent with the PhD project, at highly qualified institutions abroad, for a total period not exceeding twelve months. This period can be extended up to an overall maximum of eighteen months for PhDs co-supervised with foreign subjects or for those in aggregate form activated pursuant to article 3, paragraph 2, of Italian Ministerial Decree 226/2021. In planning the training activities abroad, the board can take into account the proposal of the supervisor and the co-supervisor/s of the PhD student who must propose the program of activities, the title of the project and the invitation letter from the foreign supervisor. For periods of attendance abroad in the amount the scholarship is increased by 50%.
16. PhD students have an obligation of confidentiality in relation to the research activities carried out with external bodies.
17. The use of research grants by PhD students without a scholarship is allowed as long as the topic to which the grant refers is similar, in the judgement of the Faculty Board, to the topics of the PhD.
18. Following enrolment in the course, **each doctoral candidate receives an e-mail address from the University through which he or she receives institutional communications.** It is compulsory to consult the institutional e-mail as well as to constantly be informed using the University's *website* and the department's *website* for general and specific communications relating to the PhD. The doctoral student is also obliged to register on the website of the Italian Ministry of Education, University and Research (MIUR) Login page, in order to be registered as a qualified researcher of the University.
19. PhD students can carry out, as an integral part of the training project, subject to authorization from the faculty board and without any increase in the scholarship:
  - tutoring, including paid tutoring, of undergraduate and master's degree students;
  - supplementary teaching activities, within the limit of forty hours for each academic year. For the activities referred to in this paragraph, PhD students are paid the grants referred to in article 1, paragraph 1, letter b), of Italian Decree-Law dated May 9 2003, number 105, converted, with modifications, by Italian Law dated July 11 2003, number 170. 2. The performance of activities must be indicated in staff records. This is without prejudice to specific teaching collaborations provided for by specific national rules for which the related discipline applies. All other forms of teaching are strictly prohibited and it is the responsibility of the Coordinator to supervise compliance with this provision.
20. All information regarding the administrative aspects of doctoral students, as well as their careers, is published on the University's *website* - [www.unicampania.it](http://www.unicampania.it) at the page: *Research Doctorates*, at the following link: <https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca/isciversi-ad-un-dottorato> – The publication referred to above replaces any other communication and, therefore, successful candidates are required to log on to the website referred to above for constant updates.

## Article 17

### ***Achievement of a PhD***

1. The qualification of doctor of research, abbreviated to «Dott. Ric.» or «PhD», is awarded following the successful assessment of a research thesis that contributes to the advancement of knowledge or methodology in the chosen field of investigation.
2. The qualification of a PhD is conferred by the Rector, to the extent permitted, who certifies the achievement with the release of a parchment certificate.

## Article 18

### ***Processing of personal data***

1. In compliance with articles 13 and 14 of the GDPR - EU General Data Protection Regulation number 2016/679, the personal data provided by candidates is collected at the University of Campania *Luigi Vanvitelli*, for the purposes of managing the selection and is processed on paper and using an automated database. The provision of such data is mandatory for the purposes of verifying the requirements of participation in the selection and its management.
2. The Data Subject is entitled to the rights specified in Articles 15 to 22 of the previously mentioned EU Regulation 2016/679, which include the right of access to the data concerning the Data Subject, as well as certain complementary rights, including the right to have erroneous, incomplete, or unlawfully collected data rectified, updated, completed, or erased, as well as the right to object for legitimate reasons to their processing.
3. These rights can be exercised against the University of Campania Luigi Vanvitelli, Viale Lincoln number 5 - 81100 Caserta, the Data Controller acting in the person of the Rector, by sending a request to the Data Protection Officer (DPO) having as the object: "Privacy rights" e-mail: [rpdp@unicampania.it](mailto:rpdp@unicampania.it) or PEC certified e-mail: [rpdp@pec.unicampania.it](mailto:rpdp@pec.unicampania.it). Please refer to additional and more detailed information on the privacy policy posted on the University website at the following link <https://www.unicampania.it/index.php/privacy>.

## Article 19

### ***Organisational unit Responsible for the procedure***

1. The organizational unit responsible for the selection process is the Office for Research Training, located at Viale Ellittico number 31 - 81100 Caserta; e-mail contact [ufficio.formazionericerca@unicampania.it](mailto:ufficio.formazionericerca@unicampania.it) - Person in charge of the process: Dott.ssa Michela Schettino.

## Article 20

### ***Referral***

1. For all issues not provided for in this call for applications, please refer to the University Regulations governing doctoral studies referred to in the introduction, which are available on the University's website – [www.unicampania.it](http://www.unicampania.it) at the page: *Research Doctorates*, at the following link: <https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca>.

*Annex A*

**RESEARCH PROJECT FORMAT**  
**(not exceeding 800 words)**

**DOCTORAL COURSE IN**

*40TH CYCLE*

**CANDIDATE:**

(Surname and first name)

<b>The title of the project</b>	
<b>Relevance to the SSDs characterising the PhD course</b>	
<b>Restricted research Topic, if applicable</b>	
<b>Objectives of the project</b>	
<b>State of the art</b>	
<b>Methodology and related timing with respect to the 3 years of the PhD</b>	
<b>Expected results and possible risk strategies</b>	
<b>Estimation of the period abroad (<i>minimum 6 months - maximum 12 months</i>)</b>	
<b>Degree of organisational and financial feasibility</b>	
<b>Involvement of Italian and/or international research structures and/or researchers, with relevant motivations</b>	
<b>Involvement of enterprises *</b>	
<b>Essential bibliography up to a maximum of 12 titles (in addition to the 800 words)</b>	

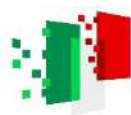
- \* For topics restricted under Italian Ministerial Decree 117/2023 and Italian Ministerial Decree 118/2023, a minimum 6-month and maximum 18-month course in an enterprise is mandatory.



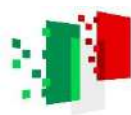
Allegato n. 01	
DESCRIPTIVE SHEET OF THE PhD COURSE IN ARCHITECTURE AND CULTURAL HERITAGE – 40° Ciclo	
Coordinator	Professor Efisio PITZALIS email: <a href="mailto:efisio.pitzalis@unicampania.it">efisio.pitzalis@unicampania.it</a>
Course administrative headquarters	Department of ARCHITECTURE AND INDUSTRIAL DESIGN
Doctoral School Director:	Human and Social Sciences Professor Gabriella SANTANGELO
Duration	3 years
Scientific and disciplinary fields:	ICAR/08 - ICAR/09 - ICAR/12 - ICAR/14 - ICAR/17 - ICAR/18 - ICAR/19 - ICAR/20 - ICAR/21 - ICAR/22 - ING-IND/11 - IUS/10 - L-ANT/08 - L-ANT/09 - L- ART/03
COMPETITIVE POSTS	
<b>N. 9 WITH SCHOLARSHIPS of which:</b>	
- n. 6 SCHOLARSHIPS financed by the University	
- n. 3 SCHOLARSHIPS RESERVED for graduates of foreign universities	
<b>N. 3 WITHOUT SCHOLARSHIP</b>	
<b>N. 12 GRAND TOTAL</b>	
Mode of conducting admission tests	
<ul style="list-style-type: none"> <li>- Evaluation of qualifications, including the mandatory presentation of a research project prepared according to the indications of the competition notice;</li> <li>- Interview which will be carried out according to the methods indicated in the art. 6, co. 8, of the competition notice;</li> <li>- Foreign language whose knowledge will be tested during the interview: For Italian-speaking candidates: ENGLISH; For non-Italian speaking candidates: ITALIAN.</li> </ul>	
Competition venue and schedule	
It will be published on the Department's web page by 9 July 2024 <a href="https://www.architettura.unicampania.it/ricerca/dottorato-di-ricerca-in-architettura-e-beni-culturali">https://www.architettura.unicampania.it/ricerca/dottorato-di-ricerca-in-architettura-e-beni-culturali</a>	
Other useful information	
For any useful information, consult the University website at the link <a href="https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca">https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca</a> and the following Department web page <a href="https://www.architettura.unicampania.it/ricerca/dottorato-di-ricerca-in-architettura-e-beni-culturali">https://www.architettura.unicampania.it/ricerca/dottorato-di-ricerca-in-architettura-e-beni-culturali</a>	
Useful contacts	
Educational/scientific contact person:	Prof. Efisio PITZALIS email: <a href="mailto:efisio.pitzalis@unicampania.it">efisio.pitzalis@unicampania.it</a>
Administrative contact person:	Doctor: Itala DEL NOCE



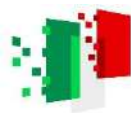
	<i>email:</i> <a href="mailto:itala.delnoce@unicampania.it">itala.delnoce@unicampania.it</a>
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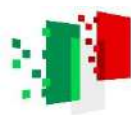
Attachment No. 02	
DESCRIPTIVE SHEET OF THE PHD COURSE IN. LEGAL AND SOCIAL SCIENCES FOR INNOVATION - 40th Cycle	
Coordinator	Prof. Gennaro ROTONDO email: gennaro.rotondo@unicampania.it
Course administrative headquarters	Department of POLITICAL SCIENCE
Doctoral School	Humanities and Social Sciences
Director:	Prof. Gabriella SANTANGELO
Duration	3 years
Scientific and disciplinary fields:	ING-INF/05 - IUS/01 - IUS/02 - IUS/03 - IUS/05 - IUS/06 - IUS/07 - IUS/10 - IUS/11 - IUS/12 - IUS/13 - IUS/19 - IUS/21 - L-LIN/07 - L-LIN/21, L-OR/12, M-STO/02, M-STO/04, SECS-P/01 - SECS-P/07 - SECS-P/08 - SPS/01 - SPS/04 - SPS/05 - SPS/07 - SPS/09 - SPS/12
Training curricula (to be activated by the Teachers' Board following the admission of successful candidates to the course, based on the number of applications made in the application for the competition and following the order of ranking)	<ul style="list-style-type: none"> <li>Administration, markets, and public policy;</li> <li>Person, society, and culture.</li> </ul>
COMPETITIVE POSTS	
<b>No. 7 WITH STUDENT GRANTS of which:</b>	
- no. 4 scholarships funded by the university	
- No. 2 SCHOLARSHIPS RESERVED for graduates of foreign universities.	
- No. 1 <b>topic-bound</b> scholarship from <b>DM 630/2024</b> PNRR (M4C2 - "From Research to Enterprise"). financed by Calenia Energia S.p.A.  <b>Topic:</b> Corporate social responsibility in energy. <b>Project title:</b> Corporate social responsibility. Energy choices and compensation mechanisms <b>Activity Description:</b> Regulation 2018/1999 on the governance of the Energy and Climate Action Union gives special importance to participation. Companies' energy choices can have spillovers on the ground in positive or negative terms with respect to the pursuit of climate neutrality. The activation of participation or offsetting mechanisms can contribute to correctly declining the aspects of social responsibility that each company assumes towards the community. It seems useful to investigate the processes through which the main stakeholders are involved in sharing the company's choices on energy and spillovers for the territory.	
<b>NO. 2 WITHOUT SCHOLARSHIP</b>	
<b>NO. 9 GRAND TOTAL</b>	
Mode of conducting admission tests	
- <b>Evaluation of qualifications</b> , including the mandatory submission of a research project prepared in accordance with the notice of competition; - <b>Interview</b> , which will be conducted in the manner specified in Art. 6(8) of the notice of competition; - <b>Foreign language</b> , knowledge of which will be tested at interview:	



For Italian-speaking applicants: <b>ENGLISH, FRENCH and SPANISH</b> ; For non-Italian-speaking applicants: <b>ITALIAN</b> .	
<b>Competition venue and schedule</b>	
It will be published on the Department's webpage by <b>July 09, 2024</b> . <a href="https://www.scienzepolitiche.unicampania.it/didattica/post-laurea/dottorato-di-ricerca-in-scienze-giuridiche-e-sociali-per-l-innovazione">https://www.scienzepolitiche.unicampania.it/didattica/post-laurea/dottorato-di-ricerca-in-scienze-giuridiche-e-sociali-per-l-innovazione</a>	
<b>Other useful information</b>	
For any useful information please consult the University website at <a href="https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca">https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca</a> and the following Department webpage <a href="https://www.scienzepolitiche.unicampania.it/didattica/post-laurea/doctoral-research-in-legal-sciences-and-social-sciences-for-innovation">https://www.scienzepolitiche.unicampania.it/didattica/post-laurea/doctoral-research-in-legal-sciences-and-social-sciences-for-innovation</a>	
<b>Useful contacts</b>	
<b>Educational/scientific contact person:</b>	Prof. Gennaro ROTONDO <i>e-mail:</i> gennaro.rotondo@unicampania.it
<b>Administrative contact person:</b>	Dr. Tonia Basco <i>e-mail:</i> tonia.basco@unicampania.it



Attached no. 03	
DESCRIPTIVE SHEET OF THE DOCTORAL RESEARCH COURSE IN INTERNATIONALIZATION OF LEGAL SYSTEMS AND FUNDAMENTAL RIGHTS – 40° Cycle	
Coordinator	Professor Ambrogio De Siano email: <a href="mailto:ambrogio.desiano@unicampania.it">ambrogio.desiano@unicampania.it</a>
Administrative headquarters of the Course	LAW Department
Doctoral School: Director:	Human and Social Sciences Professor Gabriella Santangelo
Duration	3 years
Scientific-disciplinary sectors:	IUS/01 - IIUS/02 - US/04 - IUS/07 - IUS/08 - IUS/09 - IUS/10 - IUS/11 - IUS/12 - IUS/13 - IUS/14 - IUS/15 - IUS/16 - IUS/17 - IUS/18 - IUS/19 - IUS/20 - IUS/21 – SECS-P/01
Training curricula	<ul style="list-style-type: none"> <li>• Public Law;</li> <li>• Criminal Law and Trial;</li> <li>• Civil Law, Interculturality and Trial;</li> <li>• International, Supranational and Comparative Law.</li> </ul>
PLACES IN COMPETITION	
<b>No. 17 WITH SCHOLARSHIPS of which:</b>	
- No. 6 SCHOLARSHIPS funded by the University	
- No. 2 SCHOLARSHIPS RESERVED FOR graduates of foreign universities	
- No. 9 SCHOLARSHIPS with specific topics	
<p>of which No. 9 on the <b>DM 630/2024</b> PNRR (M4C2 –“From Research to Business”)</p> <p>1) no. 1 financed by: <b>ING GROUP Srl</b>  <b>thematic:</b> Digitalization, innovation, competitiveness of the production system  <b>project title:</b> Safety and management system  <b>activity description:</b> The occupational safety management system is a corporate organizational model that aims to achieve a social goal - worker protection - by maximizing benefits and reducing costs. Its relevance is such that, by demonstrating that it has adopted and applied a compliant model, the company is exempted from liability in the case of offences committed in violation of health and safety rules at work. The number of companies adopting AI-based personnel management systems is growing, the impact of which is yet to be assessed, as there are numerous legal and ethical issues involved.</p> <p>2) no. 1 financed by: <b>ING GROUP Srl</b>  <b>thematic:</b> corporate compliance, competitiveness of the production system  <b>project title:</b> Prevention system and business policies  <b>activity description:</b> The frenzy of an intense and in some ways rhapsodic discipline aimed at the prevention of criminal activities makes it very problematic to equip itself with efficient compliance systems, capable of obtaining results in court proceedings without aggravating business activity. The research activity is aimed at defining a synthesis model that can serve as a basis for business strategies aimed at implementing integrated compliance systems.</p> <p>3) no. 1 financed by: <b>Tecnosistem spa</b>  <b>thematic:</b> Public contracts  <b>project title:</b> Trust as a paradigm of interpretation and application of the discipline on public contracts</p>	



**activity description:** The typing of the principle of trust is one of the main innovations of the code of public contracts. This is confirmed first of all by its location: the relative discipline is referred to art. 2; but also the express assignment of the role of interpretive paradigm and application of the codicystic discipline. The principle, given its origin and uncertain content, raises numerous legal questions. So it is easy to predict that its use in such a complex and relevant thematic area for the country's economy is not simple: indeed, it is not far-fetched to imagine the manifestation of significant differences in interpretation. For this reason, it is essential to carry out a study on the application of the principle of confidence to the renewed regulation of public contracts, on the proper use of which, moreover, depends the use of PNRR resources.

4) no. 1 financed by: **Grale spin off**

**thematic:** company compliance, production system competitiveness

**project title:** Enterprise policies in the light of the criminal prevention system

**activity description:** The collective body and/or its members may, during the course of business activity, give rise to behaviors or entrepreneurial choices that various legal instruments qualify as evidence of criminal activity. Following such a finding, the relevant authorities will be able to intervene with a measure aimed at paralyzing business activity.

Think of the regulations of the anti-mafia code (legislative decree 159/2011), in particular the measures of preventive seizure (article 20 of legislative decree 159/2011), preventive confiscation (article 24 of legislative decree 159 /2011), judicial administration (art. 34 Legislative Decree 159/2011), judicial control (art. 34-bis Legislative Decree 159/2011). It follows the prevention carried out by the prefectural authority, in an interdictive form, through the anti-mafia documentation system (art. 82 ss. d.lgs 159/2011), and, in a collaborative form, through the recently introduced institute, of which to the art. 94-bis of Legislative Decree 159/2011, entitled «administrative collaborative prevention measures applicable in case of occasional facilitation». Furthermore, the mechanism of prevention through organization referred to in Legislative Decree no. must be added. 231/2001, based on the "stick and carrot approach". Lastly, we can mention the measures to combat mafia infiltration in the anti-corruption regulations, referred to in art. 32, legislative decree n. 90/2014, converted with amendments by Law 11 August 2014, n. 114 and, in some areas, the transparency and anti-corruption obligations referred to in Legislative Decree 33/2013 and Law 190/2012, also applicable to formally private entities that provide public services.

The complexity of the system is evident, the consequent risk of systematic and interpretative aporias, the overlap between similar legal institutions and the wide margins of interpretation that stand out on the horizon of a gray area with undefined boundaries. The research activity is aimed at investigating the basic lines of the system to outline strategies for business action.

5) no. 1 financed by: **Grale spin off**

**thematic:** corporate compliance, competitiveness of the production system

**project title:** Integrated (criminal) compliance hypothesis

**activity description:** The culture of corporate self-regulation has spread, to highlight the most relevant areas of corruption, terrorism (and its financing), money laundering, environmental crimes, financial and economic offences. Areas in which collective bodies are pushed to equip themselves with mechanisms and tools for the prevention of offenses and crimes in particular. In the complex framework that emerged with the succession of regulatory interventions, the "Organization and Management Model" pursuant to Legislative Decree no. 231/2001 has been reproduced, with a relative proliferation of positions of responsibility. The multiplication has manifested itself in various sectors. Think, in particular, of the organizational models referred to in art. 30 of Legislative Decree no. 81/2008 regarding safety at work; to the regulations established on anti-corruption by law no. 190/2012 and subsequent additions (the reference, in particular, is to Anac Resolution no. 1134/2017); good organization in environmental matters; to cooperative compliance, introduced by Legislative Decree no. 128/2015; to customs compliance relating to the status of Authorized Economic Operator (AEO), referred to in the Union Customs Code (EU Reg. No. 952/2013) and subsequent Delegated Regulation



(EU Reg. No. 2015/2446) and Implementing Regulation (EU regulation no. 2015/2447); to the legality rating; to the UNI ISO 37001 certifications for an anti-corruption management system and OHSAS 18001, regarding safety in the workplace or even the environmental management system (ISO 14001) and the quality management system (ISO 9001). Even the recent Crisis and Insolvency Code referred to in Legislative Decree no. 14/2019 is an expression of the principle of corporate self-regulation for preventive purposes and provides for various moments of interweaving with Model 231/2001.

These are management systems relating to different risks and which aim at different purposes compared to Model 231 but which can be part of an integrated compliance system which is certainly appreciable even in court proceedings.

The complexity of the panorama of compliance obligations is evident, with the need to investigate the different structures to bring to light differences and similarities so as to build a summary framework that can form the basis for business strategies aimed at creating integrated compliance systems.

6) no. 1 financed by: **Lapo compound srl**

**thematic:** Competitiveness of the production system, corporate management and internationalisation

**project title:** Organizational models, production chains and markets in the automotive sector in light of the ecological transition and recent geopolitical tensions.

**activity description:** The package of EU initiatives on climate, transport, energy and taxation known as the Green Deal significantly involves the transport industry. The planned decommissioning of the internal combustion engine by 2035 and the transition to the electric car will lead to a substantial restructuring of the production chain, and a presumably very significant impact on the size of the mechanical components market and therefore on the demand for work. Against the backdrop of the energy transition, new risks linked to the supply of raw materials emerge in a context characterized by strong geopolitical tensions and the probability of an imminent "rewriting" of the map of international trade relations. The research activity must mainly concern the recognition of ongoing restructuring processes, with the aim of identifying the organizational changes required of the subjects involved to maintain competitiveness in international markets.

7) no. 1 financed by: **Mondialpol spa**

**thematic:** Competitiveness of the production system, corporate compliance

**project title:** The due diligence process: building a risk-based framework

**activity description:** Awareness of the dangers of the money laundering phenomenon and its transnational dimension has led to the implementation of multiple interventions aimed at developing prevention and contrast measures both on an international and domestic level. Consequently, private and public bodies are required to implement money laundering prevention actions, i.e. adopt organizational measures to address the risk of money laundering.

The central core of the regulatory provisions is based on the principle of active and passive collaboration, from which the numerous organizational and procedural rules in which the anti-money laundering regulation is articulated derive. For the creation of an adequate governance architecture of the corporate enterprise, various procedural obligations are thus established: the obligations of adequate customer verification; retention obligations; reporting obligations. The complex structure of obligations is then supported by a rigorous and articulated sanctioning apparatus.

The complexity of managing the due diligence process is evident, which requires evaluating and weighing multiple data, subject to legislation that is not always detailed and which leaves margins of discretion to operators and/or control authorities with an outcome that is not always easily predictable. There then arises the need to systematise certain aspects of the legislation such as, among others, the possible emergence of presumptions (absolute or relative) of high risk of money laundering or the correct identification of the activities relating to the enhanced due diligence measures in order to calibrate the relevant process correctly.

8) no. 1 financed by: **Gesap srl**

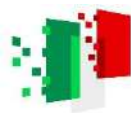
**thematic:** Public contracts



<p><b>project title:</b> <i>The principle of good faith and protection of trust in the general law and in the code of public contracts</i></p> <p><b>activity description:</b> <i>The typification of the principle of good faith and the corresponding protection of trust is one of the main innovations of the public contracts code. Given the origin and uncertain content of the principle in question, it is easy to foresee that its use in such a complex and relevant thematic area for the country's economy will not be simple: indeed, it is not far-fetched to imagine the emergence of significant discrepancies interpretative. Therefore, a study is indispensable regarding the application of the principle in question to the renewed regulation of public contracts, on the correct use of which, moreover, the use of PNRR resources depends.</i></p>	
<p>9) no. 1 financed by the Institution: <b>Consorzio intercomunale dei servizi socio-sanitari</b></p> <p><b>thematic:</b> <i>Public services, competition, competitiveness of the production system</i></p> <p><b>project title:</b> <i>Public participations in the contemporary legal system</i></p> <p><b>activity description:</b> <i>The so-called Public shareholdings have a long history, which is common to many Western European countries. They experienced a real spread in the 1950s, presenting themselves as the main instrument of direct public intervention in the economy. The phenomenon has gradually grown and changed due to various national and supranational factors.</i></p> <p><i>To date, the public enterprise system is mainly made up of companies. The vastness of the use of the private organizational model and the accumulation of the related regulation have given rise to a veritable kaleidoscope of companies with public participation, different in terms of regime, object, purpose, and also in terms of promoters or shareholders. The research activity is resolved in the attempt to categorize them, with the aim above all of identifying the relevant legal regime, thus favoring the interpretative and applicative activity of the operators.</i></p>	
<b>No. 4 WITHOUT SCHOLARSHIP</b>	
<b>No. 21 TOTAL</b>	
<b>Procedure for carrying out admission tests</b>	
<ul style="list-style-type: none"> <li>- <b>Evaluation of qualifications</b>, including the mandatory presentation of a research project prepared according to the indications of the competition notice.</li> <li>- <b>Interview</b> which will be carried out according to the methods indicated in the art. 6, co. 8 of the competition notice.</li> <li>- <b>Foreign language</b> whose knowledge will be tested during the interview: For Italian-speaking candidates: <b>ENGLISH</b>; For non-Italian speaking candidates: <b>ITALIAN</b>.</li> </ul>	
<b>Location and competition calendar</b>	
<p>It will be published by <b>July 5, 2024</b> at the following address:  <a href="https://www.giurisprudenza.unicampania.it/didattica/formazione-post-lauream/dottorato-di-ricerca-in-internazionalizzazione-dei-sistemi-giuridici-e-diritti-fondamentali">https://www.giurisprudenza.unicampania.it/didattica/formazione-post-lauream/dottorato-di-ricerca-in-internazionalizzazione-dei-sistemi-giuridici-e-diritti-fondamentali</a> </p>	
<b>Other useful information</b>	
<p>For any useful information, consult the University website at the link  <a href="https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca">https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca</a> and the following Department web page:  <a href="https://www.giurisprudenza.unicampania.it/didattica/formazione-post-lauream/dottorato-di-ricerca-in-internazionalizzazione-dei-sistemi-giuridici-e-diritti-fondamentali">https://www.giurisprudenza.unicampania.it/didattica/formazione-post-lauream/dottorato-di-ricerca-in-internazionalizzazione-dei-sistemi-giuridici-e-diritti-fondamentali</a> </p>	
<b>Useful contacts</b>	
<b>Educational/scientific contact:</b>	<p>Professor Ambrogio DE SIANO  email: <a href="mailto:ambrogio.desiano@unicampania.it">ambrogio.desiano@unicampania.it</a> </p>

**Administrative contact:**

Ms. Elena Daniela Scaramella  
email: [elenadaniela.scaramella@unicampania.it](mailto:elenadaniela.scaramella@unicampania.it)



<b>Allegato n. 04</b>	
<b>DESCRIPTION OF THE PHD COURSE IN SCIENCES OF THE MIND - 40th cycle</b>	
Coordinator	<b>Prof. Gabriella SANTANGELO</b> email: <a href="mailto:gabriella.santangelo@unicampania.it">gabriella.santangelo@unicampania.it</a>
Location	Department of Psychology
Doctoral School	Human and Social Science
Head of the School	Prof. Gabriella SANTANGELO
Duration	3 years
Fields	M-PSI/01 - M-PSI /02 - M-PSI /03 - M-PSI/04 - M-PSI/05 - M-PSI/06 - M-PSI/08 - INF/01 – M-PED/01 - SPS/11 – SPS/12
<b>COMPETITIVE POSITIONS</b>	
<b>N. 12 WITH SCHOLARSHIPS of which:</b>	
- n. 6 SCHOLARSHIPS FUNDED by the University	
- n. 6 SCHOLARSHIPS RESERVED for graduates of foreign universities	
<b>N. 4 WITHOUT SCHOLARSHIPS</b>	
<b>N. 16 TOTAL</b>	
<b>Admission procedures</b>	
<ul style="list-style-type: none"> <li>- <b>Evaluation of qualifications</b>, including the mandatory submission of a research project prepared in accordance with the competition notice;</li> <li>- <b>Interview</b>, which will be conducted according to the procedures indicated in art. 6, par. 8 of the competition notice;</li> <li>- <b>Foreign language</b>, knowledge of which will be tested during the interview: <b>ENGLISH</b>.</li> </ul>	
<b>Venue and calendar</b>	
Will be published on the Department's webpage by <b>09 July 2024</b> <a href="https://www.psicologia.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-della-mente">https://www.psicologia.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-della-mente</a>	
<b>Further useful information</b>	
For any useful information, please consult the University website at <a href="https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca">https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca</a> and at the following Department webpage <a href="https://www.psicologia.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-della-mente">https://www.psicologia.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-della-mente</a>	
<b>Contacts</b>	
<b>Educational/scientific contact:</b>	Prof. Gabriella SANTANGELO email: <a href="mailto:gabriella.santangelo@unicampania.it">gabriella.santangelo@unicampania.it</a>
<b>Administrative contact:</b>	Dr. Luciana Mainolfi email: <a href="mailto:luciana.mainolfi@unicampania.it">luciana.mainolfi@unicampania.it</a>



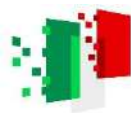
Allegato n. 05	
INFORMATION SHEET OF THE PHD COURSE IN History and Trasmission of Cultural Heritage – 40° CYCLE	
Coordinator	Prof. Nadia Barrella email: <a href="mailto:nadia.barrella@unicampania.it">nadia.barrella@unicampania.it</a>
Administrative headquarters of the Course	Department of Humanities and Cultural Heritage
PHD School: Director:	Humanities and social sciences Prof. Gabriella SANTANGELO
Duration	3 years
Scientific areas/subject matters:	ICAR/18 - L-ANT/02 - L-ANT/05 - L-ANT/06 - L-ANT/07 - L-ART/01 - L-ART/02 - L-ART/04 - L-FIL-LET/04 - L-FIL-LET/05 - L-FIL-LET/09 - L-FIL-LET/10 - L-FIL-LET/11 - L-FIL-LET/12 - L-LIN/04 - L-LIN/05 - L-LIN/12 - M-FIL/06 - M-STO/01 - M-STO/02 - M-STO/04 - M-STO/08
COMPETITION PLACES	
N. 12 WITH SCHOLARSHIPS OF WHICH:	
Ordinary places: - n. 6 WITH SCHOLARSHIPS - n. 3 WITHOUT SCHOLARSHIP	TOT. n. 9
Reserved places: n. 6 WITH SCHOLARSHIPS RESERVED FOR GRADUATES OF FOREIGN UNIVERSITIES	
OVERALL TOTAL N. 15	
Procedure for carryng out the admission exams	
<ul style="list-style-type: none"> <li>- Evaluation of qualifications, including the compulsory submission of a research project according to the format indicated in art. 6, co. 3, of the competition;</li> <li>- Interview that will be carried out according to the procedures indicated in art. 6, co. 6, of the competition;</li> <li>- Foreign language which will be verified during the interview: English.</li> </ul>	
Location and calendar of the competition	
Consult the following web page of the Department, from July, 9, 2024. <a href="https://www.lettereбенiculturali.unicampania.it/didattica/post-laurea/dottorati-di-ricerca">https://www.lettereбенiculturali.unicampania.it/didattica/post-laurea/dottorati-di-ricerca</a>	
Other useful information	
For any useful information, please consult the University website at link <a href="https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca">https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca</a> or <a href="https://www.lettereбенiculturali.unicampania.it/didattica/post-laurea/dottorati-di-ricerca">https://www.lettereбенiculturali.unicampania.it/didattica/post-laurea/dottorati-di-ricerca</a>	
Useful contacts	
Didactic/ scientific referent:	Prof. Nadia Barrella



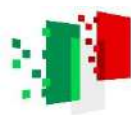
	<i>email:</i> <a href="mailto:nadia.barrella@unicampania.it">nadia.barrella@unicampania.it</a>
<b>Administration referent:</b>	Dr. Pasquale Galiero <i>email:</i> <a href="mailto:pasquale.galiero@unicampania.it">pasquale.galiero@unicampania.it</a>



<b>Annex number 06</b>	
<b>DESCRIPTIVE SHEET OF THE DOCTORAL RESEARCH COURSE IN THE ENVIRONMENT, COMPARATIVE LAW AND TRANSITIONS – Cycle 40°</b>	
Coordinator	<b>Prof. Domenico AMIRANTE</b> e-mail: <a href="mailto:domenico.amirante@unicampania.it">domenico.amirante@unicampania.it</a>
Administrative headquarters of the Course	Department of POLITICAL SCIENCES
Doctoral School:	Humanities and Social Sciences
Director:	Prof. Gabriella SANTANGELO
Duration	3 years
Scientific and disciplinary sectors:	IUS/01 - IUS/02 - IUS/03 - IUS/09 - IUS/13 - IUS/21 - M-GGR/02
<b>COMPETITIVE POSITIONS OPEN</b>	
<b>6 (six) WITH SCHOLARSHIP, of which:</b>	
- 4 (four) SCHOLARSHIPS financed by the University	
- 2 (two) SCHOLARSHIPS RESERVED for graduates of international Universities	
<b>2 (two) WITHOUT SCHOLARSHIP</b>	
<b>8 (eight) OVERALL TOTAL</b>	
<b>Procedure for admission tests</b>	
<ul style="list-style-type: none"> <li>- <b>An assessment of qualifications</b>, including the compulsory submission of a research project drafted in compliance with the call for applications;</li> <li>- <b>An interview</b>, which will be performed in compliance with article 6, paragraph 8 of the call for applications;</li> <li>- <b>An international language</b>, the knowledge of which will be tested during the interview: <b>ENGLISH</b>.</li> </ul>	
<b>Location and competition calendar</b>	
These are going to be published on the Department's web page by <b>July 9 2024</b> . <a href="https://www.scienzepolitiche.unicampania.it/didattica/post-laurea/9-ricerca/617-dottorato-di-ricerca-in-ambiente-diritto-comparato-e-transizioni">https://www.scienzepolitiche.unicampania.it/didattica/post-laurea/9-ricerca/617-dottorato-di-ricerca-in-ambiente-diritto-comparato-e-transizioni</a>	
<b>Other useful information</b>	
For all useful information, please consult the University website at <a href="https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca">https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca</a> and the following Department web page <a href="https://www.scienzepolitiche.unicampania.it/didattica/post-laurea/9-ricerca/617-dottorato-di-ricerca-in-ambiente-diritto-comparato-e-transizioni">https://www.scienzepolitiche.unicampania.it/didattica/post-laurea/9-ricerca/617-dottorato-di-ricerca-in-ambiente-diritto-comparato-e-transizioni</a>	
<b>Useful contacts</b>	
<b>Educational/scientific contact person:</b>	Prof. Luigi COLELLA e-mail: <a href="mailto:luigi.colella@unicampania.it">luigi.colella@unicampania.it</a>
<b>Administrative contact person:</b>	Dr. Paola LANDRIANI e-mail: <a href="mailto:paola.landriani@unicampania.it">paola.landriani@unicampania.it</a>



Allegato n. 07	
DESCRIPTIVE SHEET OF THE DOCTORAL RESEARCH COURSE IN SCIENCE AND ENGINEERING FOR THE ENVIRONMENT AND SUSTAINABILITY – 40° Cycle	
Coordinator	Prof. Diego VICINANZA email: <a href="mailto:diego.vicinanza@unicampania.it">diego.vicinanza@unicampania.it</a>
Administrative headquarters of the Course	Department of ENGINEERING
Doctoral School: Director::	Polytechnic and Basic Sciences Prof. Oronzio MANCA
Duration	3 years
Scientific and disciplinary sectors:	AGR/02 - AGR/05 - AGR/07 - AGR/14 - BIO/01 - BIO/03 - BIO/07 - CHIM/02 - CHIM/10 - CHIM/12 - FIS/07 - GEO/05 - GEO/08 - ICAR/02 - ICAR/03 - ICAR/05 - ICAR/07 - ICAR/08 - ICAR/09 - ICAR/10 - ICAR/12 - ICAR/13 - ICAR/17 - ING-IND/01 - ING-IND/25 - MED/42
Training programmes (to be activated by the Faculty Board after admission of the successful candidates to the course, based on the number of requests made in the application form and following the order of the ranking list of merit)	<ul style="list-style-type: none"> <li>Natural Resources, Environment, Agriculture and Food;</li> <li>Sustainable Civil Engineering;</li> <li>Circular Economy of Goods and Services.</li> </ul>
COMPETITIVE POSITIONS OPEN	
<b>20 (twenty) WITH SCHOLARSHIP, of which:</b>	
- 08 (eight) SCHOLARSHIPS financed by the University	
- 07 (seven) SCHOLARSHIPS RESERVED for graduates of international Universities	
- 05 (five) SCHOLARSHIPS with a <b>compulsory topic</b> of which:	
<p><b>1 (one)</b> funded under <b>Italian Ministerial Decree 630/2024</b> NRRP (M4C2 - "From Research to Enterprise") co-funded by the Enterprise <b>Bell Production S.p.A.</b> and the University of Campania Luigi Vanvitelli</p> <p><b>Topic:</b> Green revolution and ecological transition  <b>Title of the project:</b> Production of chemicals from waste by means of advanced thermochemical treatments.  <b>Description of the activity:</b> The project lays in the topic of so-called "feedstock recycling or chemical recycling," whose the aim is to obtain feedstock for the chemical industry and replace part of petroleum derivatives. Unlike in the past, today it is the petrochemical industry itself that is pushing to combine the use of chemicals from waste and scrap with that of oil in steam cracking processes as well as there is strong demand from the chemical processing industry for products obtained from alternative sources to traditional ones that fit into a green chemistry perspective. The hydrogen-based energy transition completes an overall framework that drives the applied research to exploit the synergy between different processes as well as the use of waste to optimize resource use while minimizing long-term environmental impact. The research project specifically will have as its primary objective the production of hydrogen by optimizing the efficiency of the entire technological system, aiming for an optimized overall efficiency based on sustainability criteria. The optimization parameters as well as the efficiency itself will be set having as a guideline the methodological basis of the life cycle approach. The conversion processes that will be analyzed include the thermochemical ones; the prior analysis of the scientific literature in conjunction with the real industrial framework will lead to the articulation of the project in detail with the definition of the objectives, methods, boundary and design of the experimentation.</p>	



1 (one) funded under **Italian Ministerial Decree 630/2024** NRRP (M4C2 - "From Research to Enterprise")

co-funded by the Enterprise **Mater Soc. Cons. a R.L.** and the University of Campania Luigi Vanvitelli

**Topic:** Green revolution and ecological transition

**Title of the project:** Valorising olive oil supply chain by green technologies

**Description of the activity:** Conventional methods of treatment, management and valorisation of waste from the olive oil supply chain are characterized by low efficiency, high cost and potential environmental risks due to high BOD and COD values. In the last decade, the scientific community has proposed numerous valorization processes, most of which involve the use of chemical solvents, or which are difficult to scale-up. Thus, the partnership aims to apply innovative technologies, coupled with IoT and machine learning processes, which in recent years have progressively attracted growing attention in solving complex problems such as environmental risk management. The waste from the olive oil supply chain can be of different types and with different chemical-physical characteristics, which firstly define the type (by-product or waste) and secondly the danger. In fact, improper treatment and/or reuse can cause a series of environmental problems, as well as damage to human health and a waste of natural resources. These problems could be significantly reduced if most of the waste and by-products of the olive oil supply chain were reused correctly, such as for the recovery of bioactive substances of nutraceutical, cosmeceutical and pharmaceutical interest or as a source for producing alternative energies or biosoil improvers, in a circular economy perspective. The project aims to focus in particular on pomace, vegetation water, pruning waste and used vegetable oils, which are an important ecological problem, especially in the Mediterranean scrub regions. In fact, by-products of the olive oil supply chain are characterized by high values of COD (chemical oxygen demand) and BOD5 (biological oxygen demand). Furthermore, they biodegrade slowly due to their polyphenol content with antimicrobial action. The main aim will be recovering polyphenols by using innovative, green technologies and to exploit them for producing new functional foods and/or nutraceuticals and/or cosmeceuticals through a 4.0 approach.

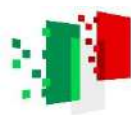
1 (one) funded under **Italian Ministerial Decree 630/2024** NRRP (M4C2 - "From Research to Enterprise")

co-funded by the Enterprise **TECHNOSMART EUROPE SRL** and the University of Campania Luigi Vanvitelli

**Topic:** Green revolution and ecological transition

**Title of the project:** Development of a non-invasive, miniature, and multisensory tag to study the behavior of large cetaceans

**Description of the activity:** Bio-logging tags for large whales emerged in the late 20th century, initially bulky and limited. In the 21st century, advances in technology have miniaturized tags, allowing deeper insights into whale behavior, migration and physiology. In particular, DTAG at the Woods Hole Oceanographic Institution (WHOI, USA), has revolutionized whale research with advanced digital sensors and data storage. As a result, scientists have begun to gain a comprehensive view of whale behavior, including analysis of locomotion, emission and reception of sounds. When combined with satellite telemetry, these tags can track whale movements over long distances. However, time and storage are still limited for this type of instrument. The challenges of this PhD proposal will be to optimize the power efficiency of the bio-logging tags in order to extend the battery life and increase the operational longevity. The PhD student, working in collaboration with the company TECHNOSMART, will be involved in the implementation of novel tag, with energy harvesting techniques and low power design strategies. It will also be necessary to optimize storage, maximize data collection without compromising device weight or battery life, minimize constraints related to high pressure at depth, and ensure efficient use of data to provide a comprehensive view of whale behavior. Another aspect will be to miniaturize the instrument to develop new techniques for deployment on large animals such as whales (e.g., using drones). This innovative project represents a



*fusion of cutting-edge engineering, biology, and environmental science to provide a powerful tool for understanding and conserving important endangered species. The research activities will be carried out in collaboration and under the supervision of researchers from the Zoological Station Anton Dohrn (SZN) of Naples. The academic tutors will be supported by industrial tutors as well as tutors from SZN.*

**1** (one) funded under **Italian Ministerial Decree 630/2024** NRRP (M4C2 - "From Research to Enterprise")

co-funded by the Enterprise **AIRMEC S.r.l.** and the University of Campania Luigi Vanvitelli

**Topic:** Green revolution and ecological transition

**Title of the project:** Hydrogen production from waste biomass gasification

**Description of the activity:** The sustainable production of energy represents one of the most significant challenges of the XXI century. The actual global energy demand is about 630 EJ. Most of it, around 80%, is generated using fossil fuels, 15% comes from renewable sources, such as biomass, sunlight, wind, moving water, and geothermal heat, and about 5% is produced by nuclear energy. Fossil fuels utilization results in the release of significant amounts of carbon dioxide, the main greenhouse gas, which traps heat in the atmosphere and contributes to global warming. In recent years, the power sector is gradually shifting towards renewable sources, replacing the use of fossil fuels due to excessive emissions of pollutant gases and the need for continuous availability of energy sources at an affordable price. In this context, biomass is considered a potential raw material for sustainable energy production due to its wide availability and environmentally friendly nature. Nowadays, the use of biomass is increasing and is expected to become the main substitute for fossil fuels. On the other hand, the significant expansion of the biofuels industry has resulted in various social, environmental, and economic consequences. One of the most significant issues is the "food versus fuel" debate, which highlights the risk of diverting farmland or crops from food to biofuel production, which potentially hurts the agricultural food market by raising food prices and affecting the food security of the poorest people. Because of these limitations associated with conventional biofuels, research efforts are being made to develop alternative biofuels from no-food biomass, such as biodegradable garden waste, forestry residues, food waste from households and restaurants, and comparable waste from food processing plants, sewage sludge, etc.

Several thermochemical processes (e.g., hydrothermal carbonization/liquefaction, torrefaction, pyrolysis, and gasification) have been developed to convert biomass into bioenergy, energy carriers, and green chemicals. Among these, the gasification process is considered one of the most interesting thanks to its flexibility in accepting different types of fuels and its ability to produce a wide range of high value-added products.

The project proposal aims to produce a high hydrogen content synthesis gas through the gasification process using waste biomass as a starting feedstock. The main advantages that would derive from the application of the project proposal can be summarized in the resolution of the troubles deriving from the management of waste biomass, reduction of the use of fossil fuels, reduction of pollutant gas emissions deriving from the use of fossil fuels, and production of a carbon-neutral fuel (hydrogen) at affordable cost.

The research activity involves the application of innovative and sustainable solutions supported by experimental tests using laboratory and pilot-scale plants. The experimental activity will mainly be carried out at the AIRMEC facility and University laboratories, under the supervision of academic and industrial tutors.

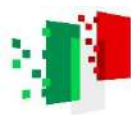
**1** (one) funded under **Italian Ministerial Decree 630/2024** NRRP (M4C2 - "From Research to Enterprise")

co-funded by the Enterprise **Nuova Erreplast s.r.l.** and the University of Campania Luigi Vanvitelli

**Topic:** Green revolution and ecological transition

**Title of the project:** Development of new functional prototypes based on biocidal natural products by a nano-technological approach for human and food safety.





**Description of the activity:** Development of smart materials for packaging with the addition of phytoextracts from medicinal plants, appropriately formulated, with biocidal, antifungal, antimitotic and insect repellent action. Smart materials will be developed both from commercial polymers (PP, PE, PET) and from synthetic ones, appropriately functionalized. Furthermore, biodegradable materials with biocidal and insect-repellent activity will be developed capable of counteracting the proliferation of bacteria both on the surface of the packaging and on the product thanks to the release of natural substances, appropriately nano-formulated, with mechanical and barrier properties equal to or improved compared to those available on the market. For the extraction of phytocomplexes from medicinal plants, supercritical CO<sub>2</sub> will be used, which has established itself as one of the most effective methods for extracting and isolating essential oils from aromatic plants. The final goal of the project is the production of innovative systems for the sanitization of public and private environments and of functional food pads through innovative approaches, which will exploit the phytoextracts through supercritical fluid technology, thus evaluating their antimicrobial, acaricide and insecticidal properties, and nanoformulating them.

06 (six) WITHOUT SCHOLARSHIP

26 (twenty-six) OVERALL TOTAL

#### Procedure for admission tests

- An assessment of qualifications, including the compulsory submission of a research project drafted in compliance with the call for applications;
- An interview, which will be performed in compliance with article 6, paragraph 8 of the call for applications;
- An international language, the knowledge of which will be tested during the interview: **ENGLISH**

#### Location and competition calendar

These are going to be published on the Department's web page by **July 09 2024**.

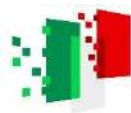
<https://www.ingegneria.unicampania.it/didattica/dottorato-in-scienze-e-ingegneria-per-l-ambiente-e-la-sostenibilita>

#### Other useful information

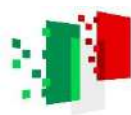
For all useful information, please consult the University website at <https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca> and the following Department web page <https://www.ingegneria.unicampania.it/didattica/dottorato-in-scienze-e-ingegneria-per-l-ambiente-e-la-sostenibilita>

#### Useful contacts

Educational/scientific contact person	Prof. Diego VICINANZA email: <a href="mailto:diego.vicinanza@unicampania.it">diego.vicinanza@unicampania.it</a>
Administrative contact person:	Dott. Massimo MANNA email: <a href="mailto:massimo.manna@unicampania.it">massimo.manna@unicampania.it</a>



Annex number 08	
DESCRIPTIVE SHEET OF THE DOCTORAL RESEARCH COURSE IN RESEARCH IN INDUSTRIAL AND INFORMATION ENGINEERING – Cycle XL	
Coordinator	Prof. Aldo MINARDO e-mail: <a href="mailto:aldo.minardo@unicampania.it">aldo.minardo@unicampania.it</a>
Administrative headquarters of the Course	Department of Engineering
Doctoral School: Director:	Polytechnic and Basic Sciences Prof. Oronzio MANCA
Duration	3 years
Scientific and disciplinary sectors:	NG-INF/01 - ING-INF/02 – ING-INF/03 - ING-INF/04 - ING-INF/05 - ING-INF/07 - ING-IND/03 - ING-IND/04 - ING-IND/05 - ING-IND/06 - ING-IND/07 - ING-IND/10 - ING-IND/14 - ING-IND/15 - ING-IND/16 - ING-IND/17 - ING-IND/31 - ING-IND/33 – ING-IND/35
Training programmes (to be activated by the Faculty Board after admission of the successful candidates to the course, based on the number of requests made in the application form and following the order of the ranking list of merit)	<ul style="list-style-type: none"> <li>• Electrical Engineering;</li> <li>• Computer Engineering;</li> <li>• Energy Conversion;</li> <li>• Aerospace Engineering;</li> <li>• Mechanical Engineering.</li> </ul>
COMPETITIVE POSITIONS OPEN	
<b>23 (twenty-three) WITH SCHOLARSHIP, of which:</b>	
- 09 (nine) SCHOLARSHIPS funded by the University	
- 06 (six) SCHOLARSHIPS RESERVED for graduates of International Universities	
- 08 (eight) SCHOLARSHIPS with <u>a compulsory topic</u> of which:	
<p><b>3 (three) funded under <u>Italian Ministerial Decree 630/2024</u> NRRP (M4C2 – “From Research to Enterprise”)</b> Co-funded by: LEONARDO S.p.A.</p> <p><b>Scholarship number 1</b> <b>Topic:</b> Aerospace and Defense. <b>Title of the project:</b> Meshless numerical methods and models for high-fidelity simulation of aerodynamic flows. <b>Description of the activity:</b> The doctoral project concerns the study, development and application of "meshless" numerical methods and models for high-fidelity CFD simulation of turbulent flows of aeronautical interest. Possible case studies concern the take-off and landing phases of an airplane, and the hover phase of a helicopter, where the accurate resolution of the separate aerodynamic flows is essential for the assessment of the aerodynamic forces. Using classical Navier-Stokes solvers to obtain an accurate solution of these flows, would present a huge computational cost. In this context, meshless methods offer the possibility of optimizing computational resources, even in the presence of complex geometries, thanks to the ability to resolve the flow field on a mesoscopic scale, combined with advanced parallelization, enabling the adoption of the Large-Eddy Simulation (LES) approach in the industrial aerodynamic design and engineering sector. The main objective of the project is to test, optimize, and extend the applicability of meshless methods for the study of aeronautical configurations of industrial interest.</p> <p><b>Scholarship number 2</b> <b>Topic:</b> Aerospace and Defense. <b>Title of the project:</b> Study and analysis of reticular composite structures with high energy absorption for anti-explosion applications.</p>	



**Description of the activity:** Study of complex reticular structures in composite material with high energy absorption capacity created using additive technology. Additive Manufacturing allows the production of 3D structures (latex, auxetic and bioinspired) with deformation behavior optimized for the application, saving waste of material and energy compared to common subtractive technologies. Anti-shock elements (proof of concept) will be created and tested in the laboratory with impulsive loads equivalent to the shock induced by the explosion of an explosive charge.

**Scholarship number 3**

**Topic:** Aerospace.

**Title of the project:** Innovative design techniques for aeronautical structures in composite material.

**Description of the activity:** As part of the PhD activities, innovative design techniques based on the use of double-double laminates will be used aimed at reducing the weight of aeronautical structures and increasing performance relating to design and impact loads.

**1 (one) funded by the Italian Ministerial Decree 630/2024 NRRP (M4C2 – “From Research to Enterprise”)**

Co-funded by the Company: LAMBORGHINI Automobili S.p.A.

**Topic:** New production and design technologies.

**Title of the project:** Innovative design and production techniques for composite and hybrid material structures using multifunctional materials.

**Description of the activities:** As part of the PhD activities, innovative design and production techniques will be used based on the use of additive manufacturing and multifunctional materials aimed at reducing the weight and increasing the performance of structures used in the automotive sector.

**1 (one) funded by the Italian Ministerial Decree DM 630/2024 NRRP (M4C2 – “From Research to Enterprise”)**

Co-funded by Consorzio CO.RI.S.T.A.

**Topic:** Sustainable Mobility, Enhancement of high-profile skills in the industrial sector.

**Title of the project:** Study of SAR image processing algorithms based on data from local navigation systems using UWB radar.

**Description of the activities:** The focus is the study of SAR processing algorithms that use data deriving from local navigation systems. Local navigation systems are necessary where no GNSS navigation system exists. These systems are created using technology that uses UWB radar. Local navigation systems consist of a transmitting/receiving station and a series of many UWB radars that define reference points. The latter are identifiable and georeferenced in a local network, while the central station can be geolocalised using GPS or other position identification systems. The study intends to explore the possible uses of local navigation data to improve the processing and geocoding performance of SAR images in environments without navigation systems, such as Martian or lunar environments.

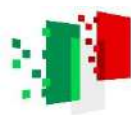
**1 (one) funded by the Italian Ministerial Decree DM 630/2024 NRRP (M4C2 – “From Research to Enterprise”)**

Co-funded by Consorzio Meditech

**Topic:** Digitalization, innovation, competitiveness, culture, and tourism.

**Title of the project:** Methodologies and techniques for Cybersecurity in the e-Gaming and Gamification fields.

**Description of the activity:** The term e-Gaming refers to any system that uses digital systems for the implementation of "Games" in the broadest sense of the term: in this context we range from the classic and most common entertainment to the world of e-Sports, in which games become a competition area. It is important, for example, to highlight that games such as chess are now classified as Olympic sports and the world of e-sports now offers dedicated competitions on which



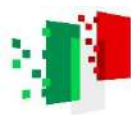
<p>numerous interests focus. Furthermore, electronic gaming is increasingly exploited in the training sector (the gamification approach) with the aim of creating a context that facilitates the acquisition of specific (and often very vertical) skills and abilities quickly, thanks to the interest of the forming. The development of these ideas is now increasingly becoming reality thanks to the incredible potential of modern e-games, which adopt HPC systems, IoT technologies and 5G networks. The objective of the research activities will be studying the cybersecurity problems applied in this area, ranging from cheating to cyber-attacks on the infrastructures that host e-gaming systems and events.</p>	
<p><b>2 (two)</b> funded by the <b>Italian Ministerial Decree DM 630/2024</b> PNRR (M4C2 – “From Research to Enterprise”) Co-funded by CIRA S.C.p.A.</p> <p><b>Scholarship number 1</b> <b>Topic:</b> Aerospace. <b>Title of the project:</b> Development of new structural concepts and new testing methodologies for crashworthy aerospace components based on the use of additive manufacturing. <b>Description of the activity:</b> As part of the activities, innovative production techniques based on the use of additive technologies aimed at improving crashworthiness properties will be used and innovative testing methodologies will be developed for the performance evaluation of aerospace components.</p> <p><b>Scholarship number 2</b> <b>Topic:</b> Aerospace. <b>Title of the project:</b> Influence of the printing process on the mechanical properties of innovative structures produced with metal additive technologies for the aerospace sector. <b>Description of the activity:</b> This study analyzes the influence of the printing process on the mechanical properties of structures with innovative designs produced using metal additive technologies, focusing on the aerospace sector. We examine how various printing parameters, such as deposition speed, beam power and layer thickness, influence mechanical properties such as static, fatigue, fracture and impact resistance of the printed components. The goal is to improve the design using optimized process parameters to improve the performance of the materials and ensure compliance with the standards typical of the aerospace context.</p>	
<b>07 (seven) WITHOUT SCHOLARSHIP</b>	
<b>30 (thirty) OVERALL TOTAL</b>	
<b>Procedure for admission tests</b>	
<ul style="list-style-type: none"> <li>- An <b>assessment of qualifications</b>, including the compulsory submission of a research project drafted in compliance with the call for applications.</li> <li>- An <b>interview</b>, which will be performed in compliance with article 6, paragraph 8 of the call for applications.</li> <li>- An <b>international language</b>, the knowledge of which will be tested during the interview: ENGLISH.</li> </ul>	
<b>Location and competition calendar</b>	
<p>These are going to be published on the Department's web page by <b>July 09 2024</b>.  <a href="https://www.ingegneria.unicampania.it/didattica/dottorato-di-ricerca-in-ingegneria-industriale-e-dell-informazione">https://www.ingegneria.unicampania.it/didattica/dottorato-di-ricerca-in-ingegneria-industriale-e-dell-informazione</a></p>	
<b>Other useful information</b>	

For more information, please visit the University website at  
<https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca> and the Department website:  
<https://www.ingegneria.unicampania.it/didattica/dottorato-di-ricerca-in-ingegneria-industriale-e-dell-informazione>

**Useful contacts**

<b>Educational/scientific contact person:</b>	Prof. Aldo MINARDO <i>e-mail:</i> <a href="mailto:aldo.minardo@unicampania.it">aldo.minardo@unicampania.it</a>
<b>Administrative contact person:</b>	Ms. Immacolata DIRETTORE <i>e-mail:</i> <a href="mailto:immacolata.direttore@unicampania.it">immacolata.direttore@unicampania.it</a>





Allegato n. 09	
COURSE DETAILS OF Ph.D. PROGRAMME IN MATHEMATICS, PHYSICS AND APPLICATIONS IN ENGINEERING – 40° Ciclo	
Coordinator	<b>Prof.ssa Paola D'Aquino</b> email: paola.daquino@unicampania.it
Administrative Office of the Course	Dipartimento di MATEMATICA E FISICA
Doctoral School: Direttore:	Politecnica e delle Scienze di base Prof. Oronzio MANCA
Duration	3 years
Scientific Disciplinary Sectors:	MAT/01 - MAT/02 - MAT/03 - MAT/04 - MAT/05 - MAT/06 - MAT/07 - MAT/08 - FIS/01-FIS/02 - FIS/03 - FIS/04 - FIS/06 - FIS/07 – INF/01- ING-IND/10 - ING-IND/22 -ING-IND/24 - ING-INF/05 - ICAR/01 - ICAR/08 -SECS- S/01 - SECS-S/06
Positions available in the competition	
<b>N. 15 with scholarship, of which:</b>	
- n. 6 scholarships funded by the University	
- n. 6 scholarships reserved to graduates in foreign universities	
- n. 3 predefined research topic scholarships	
<p>Of which no. 1 under <b>DM 630/2024 PNRR (M4C2 – "From Research to Business")</b> Funded by: CONSORZIO NAZIONALE BIOREPACK</p> <p><b>Thematic Area:</b> Education and Research: Innovation and Dissemination of Technologies; Green Revolution and Ecological Transition</p> <p><b>Project Title:</b> Estimation of Biobased Carbon Content by Radiocarbon Analysis: Methodological Developments and Implementation of Procedures</p> <p><b>Activity Description:</b> The method of biobased carbon content is currently regulated in Europe by the UNI CEN/TS 16640:2014 standard, which prescribes the measurement of radiocarbon (<sup>14</sup>C) isotopic ratios in materials in order to evaluate their biobased content. Since the publication of the standard, the CIRCE laboratory of the Department of Mathematics and Physics at the University of Campania "Luigi Vanvitelli" has been involved in various analytical activities related to this tool, thanks to the collaboration with the Biorepack consortium. Experience from the ten-year collaboration in the field suggests the need for further analytical insights, which are the subject of this doctoral fellowship: i) on one hand, verifying the weight of certain assumptions in the standard both by acquiring additional data in collaboration with the consortium and through the organization of intercomparison programs with other laboratories; ii) on the other hand, the need for methodological developments that allow for a higher throughput of samples.</p>	
<p>Of which no. 1 under <b>DM 630/2024 PNRR (M4C2 – "From Research to Business")</b> Funded by: VERSALIS S.p.A.</p> <p><b>Thematic Area:</b> Education and Research: Innovation and Dissemination of Technologies; Green Revolution and Ecological Transition</p> <p><b>Project Title:</b> Microstructure evolution of Structure in the Devulcanization Process: Experiments and Models</p> <p><b>Activity Description:</b> Tire rubber can often be recycled more effectively following a devulcanization process. This doctoral activity aims to study and model this process with the dual purpose of understanding the key parameters to control for optimal recycling of existing materials and, with a more modern vision, identifying the fundamental factors that can lead to the design of new elastomers that are more effectively recyclable through devulcanization. The modeling part will approach the correlation between the extent of reaction of the devulcanization process, the microstructure of the material, and its rheological properties. The doctoral activity, in addition to focusing on the</p>	



modeling aspect of devulcanization, will also concentrate on the rheological study of rubber loaded with tire powder at various degrees of devulcanization. This includes studying the effect of particle deformability and their compatibility with a virgin polymer matrix, both before and after the revulcanization necessary to obtain new products. An additional innovative aspect will be the investigation of the use of micro or nano mesoporous particles capable of selectively absorbing polymer chains of different molecular weights, thereby automatically segregating low molecular weights from the devulcanized material that would not effectively participate in revulcanization. In this way, the network will be primarily formed by high molecular weight molecules, resulting in rubbers with improved elastic properties, balancing the inevitable degradation of mechanical properties due to the use of recycled rubber.

Of which no. 1 under **DM 630/2024** PNRR (M4C2 – "From Research to Business") Funded by: CIRA Scpa

**Thematic Area:** Education and Research: Innovation and Dissemination of Technologies; Digitalization, Innovation and competitiveness in the productive system

**Project Title:** Data Mining Algorithms and High Performance Computing Techniques for Aerospace Applications

**Activity Description:** The enormous amount of data generated from numerical simulations in the aerospace field (Computational Fluid Dynamics, Aeroacoustics, Aero-Thermodynamics) is generally archived and possibly reused only to retrieve information about the same configurations. However, most of the time these data are archived or even destroyed. The idea behind the proposed activity is to apply Data Mining Algorithms to Aerospace Databases in such a way as to reuse this data to train advanced models that can provide responses on different configurations. In practice, through these algorithms, it will be possible to obtain information on the performance of new aircraft or spacecraft configurations based on the results of previous simulations. This will reduce both subsequent numerical and experimental simulations, with a clear gain in terms of time and costs. The project will fundamentally rely on the interaction between the expertise developed by CIRA in the aerospace field and the expertise in designing efficient numerical algorithms developed at the Department of Mathematics and Physics. The project aims to design efficient algorithms implemented on High Performance Computing systems that provide reliable responses within reasonable times, for complex simulations on innovative systems.

**N. 4 without scholarships**

**N. 19 total positions**

#### **Admission test procedure**

- **Evaluation of qualifications**, including the mandatory submission of a research project prepared according to the guidelines of the competition announcement;
- **Interview** to be conducted according to the methods specified in Article 6, paragraph 8, of the competition announcement;
- **Foreign language proficiency**, which will be assessed during the interview: English.

#### **Competition venue and schedule**

Will be published on the department's web page by **09 July 2024**.

<https://www.matfis.unicampania.it/ricerca/dottorato-di-ricerca-in-matematica-fisica-e-applicazioni-per-l-ingegneria>

#### **Other useful information**

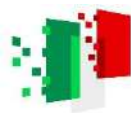
For any useful information, please visit the university's web site at the link

<https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca>

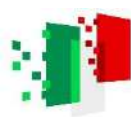
and the following Department's web page at the link

<https://www.matfis.unicampania.it/ricerca/dottorato-di-ricerca-in-matematica-fisica-e-applicazioni-per-l-ingegneria>

<i>Useful contacts</i>	
<b>Academic contact person teaching/research:</b>	Prof. Paola D'Aquino email: <a href="mailto:paola.daquino@unicampania.it">paola.daquino@unicampania.it</a>
<b>Administrative contact person:</b>	Dr. Carlo Petriccione email: <a href="mailto:carlo.petriccione@unicampania.it">carlo.petriccione@unicampania.it</a>



Allegato n. 10	
<b>DESCRIPTIVE SHEET OF THE DOCTORAL RESEARCH COURSE OF NATIONAL INTEREST IN DESIGN FOR MADE IN ITALY: IDENTITY, INNOVATION AND SUSTAINABILITY - Cycle XL</b> <b>SCHEDA DESCRITTIVA DEL CORSO DI DOTTORATO DI INTERESSE NAZIONALE IN DESIGN PER IL MADE IN ITALY: IDENTITÀ, INNOVAZIONE E SOSTENIBILITÀ - XL° Ciclo</b>	
Coordinator	Prof.ssa Alessandra CIRAFICI email: <a href="mailto:alessandra.cirafici@unicampania.it">alessandra.cirafici@unicampania.it</a>
Administrative Headquarters of the Course	Department of Architectural and Industrial Design
Doctoral School: Director:	Polytechnic and Basic Sciences Prof. Oronzio MANCA
Duration	3 Years
Scientific and disciplinary sectors:	ICAR13 - ICAR17 - ICAR18 - ICAR/09 - ICAR/10 - ING-IND/11 – ING-IND/17 - SECS-P/02 - SECS-P/07 - SECS-P/08 - IUS/02-IUS/10 - M-PSI/01 - M-PSI/05 - CHIM/02 - CHIM/03 - CHIM/04- CHIM/06 - AGR/01 - MAT/07 - SPS/07 - L-ART/03 - BIO/04
Training curricula (which will be activated by the Teachers' Board following the admission of eligible candidates to the course, based on the number of applications submitted and following the order of ranking list of merit)	<ul style="list-style-type: none"> <li>• Design for Inclusion;</li> <li>• Inclusive Innovation of Product, Service and Process Systems for Made in Italy;</li> <li>• Made in Italy and Technological and Digital Transition;</li> <li>• Made in Italy: Manufacturing and New Economic and Business Models;</li> <li>• Cultural Heritage of Made in Italy.</li> </ul>
POSTI A CONCORSO	
<b>N. 40 SCHOLARSHIP GRANTS, of which:</b>	
<ul style="list-style-type: none"> <li>- n. 5 (five) scholarships funded by the University of Studies of Campania Luigi Vanvitelli</li> <li>- n. 1 (one) scholarship funded by the University of Studies of Repubblica of San Marino</li> <li>- n. 1 (one) scholarship funded by the University of Studies degli Studi di Palermo</li> <li>- n. 1 (one) scholarship funded by the University of Studies of Libera Università of Bolzano</li> </ul>	
<ul style="list-style-type: none"> <li>- n. 1 (one) scholarship reserved for graduates of international Universities</li> </ul>	
<ul style="list-style-type: none"> <li>- n. 31 (thirty-one) SCHOLARSHIPS with a compulsory topic of which:</li> </ul>	
<p>n.1 (one) funded under Italian Ministerial Decree <b>DM 629/2024</b> NRRP (M4C1 – Inv. 4.1 “Research NRRP”) founded by: Università Vanvitelli</p> <p><b>Topic:</b> Inclusion and Cohesion PNRRP M1  <b>Project title:</b> Inclusive Marketing  <b>Description of activity:</b> In recent years, Inclusive Marketing has been emerging as a strand of research in the literature and new management practice. In general, it refers to the willingness and ability to include, represent and enhance individual differences - gender and gender identity, physical and mental abilities, age, ethnicity, sexual and affective orientation, general appearance, socioeconomic status, religion, or belief - in Marketing strategies and policies, avoiding stereotypes and ghettoization, and allowing each person to feel represented. The research will aim to develop strategic models that, by combining business and ethics, create both social value and value for brands.”</p>	



2.(two) funded under Italian Ministerial Decree **DM 629/2024** NRRP (M4C1 – Inv. 4.1 “Research NRRP”)

founded by: founded by: Conservatorio Statale di Musica TCHAIKOVSKY

#### Scholarship number 1

**Topic:** Digital transition- NRRP M1 \_Artificial intelligence as a driver of innovation in sound design

**Project title:** SoundAI: Real-Time Music Generation and Interaction Through AI

**Description of activity:** The project “SoundAI: Real-Time Musical Generation and Interaction Through Artificial Intelligence” explores the use of artificial intelligence for the creation and manipulation of real-time soundscapes, facilitating new forms of interaction between artists and technology. It focuses on the use of advanced techniques such as Variational Autoencoders and Adversarial Generative Networks to transform visual and auditory inputs into musical compositions, expanding artists' expressive and creative possibilities.

#### Scholarship number 2

**Topic:** NRRP Digital Transition M1\_ - Artificial intelligence as a driver of innovation in sound design

**Project title:** Dynamic systems and music

**Description of activity:** The research project will explore the intersection of mathematics and music, focusing on the translation of chaotic dynamical systems into musical compositions through the development of innovative metrics. It will investigate how orchestration, using a diverse range of instruments, can transform complex mathematical dynamics into engaging and aesthetically rich musical experiences. The goal is to reveal new aesthetic and emotional dimensions through different instrumental configurations, making the nuances of chaotic dynamical systems perceptible and appreciable through music. This approach not only opens new avenues for musical composition but also offers a deep understanding of the correlation between mathematical structures and their artistic expressions in music with potential use in the design of experiential and inclusive design experiences.

n.1 (one) funded under Italian Ministerial Decree **DM 629/2024** PNRR (M4C1 – Inv. 4.1 “Ricerca PNRR”)

Founded by: ABAN Accademia di Belle Arti di Napoli

**Topic: Theme: Inclusion and Cohesion M5C3**

**Project title: Eco-Sustainable Design for Public Engagement**

**Description of activity:** The impact assessment of Higher Education Institutions active in the fields of the

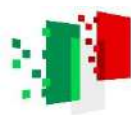
Project culture was initially based on economic-business principles, consistent with an idea of education and research ‘functional’ to the economic development of the territories and the operators active in them. These are legitimate visions, because one cannot think of a design impact assessment that does not also translate into technology transfer and business development. However, for design action to fully play its role as a factor in the growth of social and civil life, there must be constant processes of interconnection and dialogue with the environmental, relational and ‘immaterial’ components that determine the level of quality of life and wellbeing of individuals and communities. The research project should aim at investigating the theme from a systemic and complexity-oriented perspective.

n.4 (four) funded under Italian Ministerial Decree **DM 629/2024** NRRP (M4C1 – Inv. 4.1 “Public Administration”)

founded by: Università Vanvitelli

#### Scholarship number 1

**Topic:** Digitalization, Innovation, Competitiveness and Culture



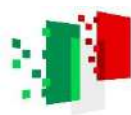
<p><b>Project title:</b> Open data and communication strategies for local government</p> <p><b>Description of activity:</b> The approval in January 2024 of the new Three-Year Plan for Information Technology in Public Administration marked a significant milestone in accelerating the digital transformation of our country. One paragraph states that “data must be understood as a common good, shared free of charge between public administrations for institutional purposes and [...] usable by civil society.” The project should propose research geared toward spreading the culture of open data in local governments, particularly small ones, and applying user-friendly data representation and visualization tools.</p>
<p><b>Scholarship number 2</b></p> <p><b>Topic:</b> Innovation, competitiveness, culture, and tourism NRRP M1</p> <p><b>Project title:</b> Enhancement of the archival heritage of the Italian State Railways.</p> <p><b>Description of activity:</b> The research project, in collaboration with the FS Foundation, aims to analyze the archival consistencies of the Foundation's photographic archives, video archives, timetable archives, and general technical archives for what concerns sign systems, orientation, vehicle marking, coding, and more generally the industrial management of Impresa from a heritage making perspective.</p> <p>The purpose is to enhance their content, illustrating with an effective narrative strategy the prerogatives and history of one of the most relevant and vast enterprise industrial heritage in terms of unitary consistency and technical prerogatives.</p>
<p><b>Scholarship number 3</b></p> <p><b>Topic:</b> Digitalization, innovation, competitiveness, culture, and tourism. NRRP M1</p> <p><b>Project title:</b> The identity of Made in Italy cultural heritages discovery, value co-creation and storytelling.</p> <p><b>Description of activity:</b> Considerations related to the loss of identity of places, the fragile presence of productive traces, and the impossibility of transferring technical culture to local communities, due to the relocation of production to peripheral areas, have solicited a discussion on the possible paradigm shift of the city's functions, in the belief that it is possible to give rise to a new 'neighborhood economy' and initiate sustainable processes and models of urban production. The project, developed in collaboration with the Third Municipality of the Municipality of Naples with which the research trajectories will be shared, should aim to trace, analyze, collect, and value, through the actions proper to strategic design and communication design, the multiple elements that qualify the cultural, social, and productive heritage of the Stella and San Carlo all'Arena neighborhoods. The activities will have to address, at different scales of investigation, the environmental, economic, and social dimensions of the project, from a systemic perspective, giving rise to multidisciplinary design processes with the active involvement of stakeholders, communities and third sector operators, generating supportive and inclusive living scenarios.</p>
<p><b>Scholarship number 4</b></p> <p><b>Topic:</b> Design for Health NRRP M6C1: Proximity Networks, Facilities, and Telemedicine for Territorial Health Care.</p> <p><b>Project title:</b> Design for Health. One-Health Approach for Extended Wellness and Personalized Care.</p> <p><b>Description of activity:</b> The new national health strategy is underpinned by the definition of substantial organizational innovation to achieve adequate, that is, personalized, quality standards of care. In line with the perspective that the National Health System (NHS) is part of a broader systemic model of community welfare, the research project intends to address the challenge of defining a shared Made in Italy model for the delivery of home care that takes full advantage of the possibilities offered by new technologies (such as telemedicine, domotics, digitization). The project will make use of the collaboration of the MediTech National Competence Center as a technology partner.</p>
<p>n.1 (one) funded under Italian Ministerial Decree <b>DM 629/2024</b> NRRP (M4C1 – Inv. 4.1 “Public Administration”)</p>







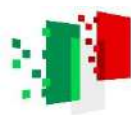
inclusion, work rehabilitation, parenting support, urban regeneration, reuse and respect for environmental resources, and countering poverty and educational poverty - defining the systemic elements on which to base an educational/productive model in a matching perspective between education, training and work with the aim of promoting a production model based on 0 waste, in a circular economy perspective.	
<b>Scholarship number 3</b> Founded by: LINEA PELLE s.r.l.	Università Vanvitelli
<p><b>Topic:</b> Green revolution and ecological transition NRP M2-Sustainable innovation of product, service and process systems.</p> <p><b>Project title:</b> Conscious Leather design research for the tanning industry.</p> <p><b>Description of activity:</b> The research project aims at analyzing the state of the art of the tanning sector in Italy and all the actors involved in the supply chain, with a view to the promotion and communication of the Italian tanning sector in all its compartments up to the manufacturing and post-processing of leather (accessories making and footwear) that in Italy is highly competitive in international markets. The research will seek to deepen the critical issues that exist in the sector thanks to the support of design towards new experiments by verifying the twin transitions taking place (digital and green) and also developing new forms of interaction with artificial intelligence with a view to a new environmental awareness of the leather product.</p>	
<b>Scholarship number 4</b> Founded by: OKAPI	Università Vanvitelli
<p><b>Topic:</b> Green Revolution and Ecological Transition_NRRP M2 Sustainable system innovation of products, services and processes for Made in Italy</p> <p><b>Project title:</b> Development of new sustainable and circular products for home and personal care</p> <p><b>Description of activity:</b> The research investigates disciplinary interactions in design for cosmetics through the conception of home and personal care products with low environmental impact. The research topics result in sustainable product lines made with low environmental impact processes and materials from circular economy; formulations should include minimal water use and reduced waste in use. The activity will also cover the preparation of materials for patent or utility model registration.</p>	
<b>Scholarship number 5</b> Founded by: FONDAZIONE FS ITALIANE	Università Vanvitelli
<p><b>Topic:</b> Digitalization, innovation, competitiveness, culture and tourism_NRRP M1</p> <p><b>Project title:</b> Enhancement of historical architecture and archival heritage of the Italian State Railways transportation system</p> <p><b>Description of activity:</b> The research project aims to analyze in depth the archival holdings of Fs Foundation in the field of architecture, based on collections from the central offices of the Works and Construction Service of the State Railways, consisting in of design drawings and photographs of railway buildings, to the definition of types and subtypes of buildings, used by Fs as a design standard in the construction of small-medium size stations and the enslaved line buildings, paying particular attention to important authorial episodes (Angiolo Mazzoni et alii fund), The purpose is to enhance its content, with a view to Heritage Making, constituting a solid basis for the proper preservation of many architectures to this day still used for railway operations, as well as the effective reuse for museum-recreational and social purposes of the heritage no longer strictly functional to the Company, in many cases however still strategic within our cities.</p>	
<b>Scholarship number 6</b> Founded by: FONDAZIONE FS ITALIANE	Università Vanvitelli
<p><b>Topic:</b> Digitalization, innovation, competitiveness, culture and tourism_ NRRP M1</p>	



<p><b>Project title:</b> Italian Railway design as a complex system. Enhancement processes and strategies for cultural fruition.</p> <p><b>Description of activity:</b> The research project aims to analyze in depth the archival holdings of Fondazione Fs regarding vehicles, systems, standards, operating and circulation regulations, railway technology and services, national and international legislation, following its most important ramifications also towards private industry regarding suppliers and contractors.</p> <p>The aim is to enhance its content, also through publications and exhibitions at national and international level, forming a solid basis for the proper preservation of many vehicles to date no longer functional for current railway operation, for museum and tourist-recreational purposes by effectively illustrating one of the most relevant and vast industrial heritage, not only at European level, for unitary consistency and technical prerogatives, connected to the promotion and enhancement activities referred to in Law August 9, 2017, no. 128 (Provisions for the establishment of tourist railways).</p>
<p><b>Scholarship number 7</b> Founded by: LUXURY GROUP S.r.l . Università Vanvitelli</p> <p><b>Topic:</b> From Research to Enterprise_ PNRR M4C2</p> <p><b>Project title:</b> Territorial manufacturing intelligence</p> <p><b>Description of activity:</b> The project aims to investigate the contemporary orientation to collaboration and communication between supply and demand, through a continuous process of representation, dissemination and strengthening of brand awareness, in a framework of reciprocity and circularity, in order to foster understanding of innovation needs, promote global competitiveness and the continuous acquisition of new knowledge and technologies in line with international strategic objectives.</p> <p>In agreement with the needs of the company, the project will test an aptitude for collaborative work as well as the consolidation of technical skills, through theoretical-exploratory approaches and design and prototype experimentation in different production systems, according to models of circularity, sustainability, accessibility, and inclusion.</p>
<p><b>Scholarship number 8</b> Founded by: BONOTTO S.p.a. Università degli Studi di Firenze</p> <p><b>Topic:</b> From Research to Enterprise_ PNRR M4C2 Dissemination of innovative models for basic and applied research conducted in synergy between universities and businesses</p> <p><b>Project title:</b> Fabric design between artificial intelligence and the archive</p> <p><b>Description of activity:</b> The project is part of the digital transition that is involving the fashion system and, in particular, the development of artificial intelligence systems applied to design. The research aims, therefore, to investigate and define the possibilities of applying artificial intelligence in the design processes of the textile industry, which represents one of the areas of excellence of Made in Italy. It will test how artificial intelligence takes the form of an augmented reality of creativity, developing new collaborations between design, art and manufacturing, redefining roles, processes, and products.</p>
<p><b>Scholarship number 9</b> Founded by: APPHIA s.r.l. Università degli Studi del Salento</p> <p><b>Topic:</b> Digitalization, innovation and competitiveness of the production system_NRRP_M1</p> <p><b>Project title:</b> Digital transformation and bio-based economy for Made in Italy</p> <p><b>Description of activity:</b> The research project aims to explore the integration of digital transformation and bioeconomy in the Italian manufacturing sector. The main objective is to analyze how digital technologies, such as artificial intelligence, Internet of Things and blockchain, can improve production efficiency, environmental sustainability and traceability of products derived from bio-based materials. Through the examination of case studies, interviews with experts and analysis of secondary data, the opportunities and challenges of the transition to business models, which strengthen the</p>



competitiveness of Made in Italy, promoting a greener and more innovative production chain, capable of responding to growing consumer demands for sustainability, will be evaluated.	
<p><b>Scholarship number 10</b> Founded by: BAI MAX MARA</p> <p><b>Topic:</b> Cultural heritage, digitization, heritage of made in Italy_NRRP M1  <b>Project title:</b> Made in Italy archives: enhancement, implementation, digitization as tools to actively reflect on the cultural heritage of made in Italy and its identity through the case of BAI Max Mara (Business Library and Archives)  <b>Description of activity:</b> The research developed with the BAI Max Mara intends to actively reflect on the cultural and material heritage of made in Italy, through the excellent case Max Mara, which has pioneered the development of a model of business archives that tells the story of the company and allows for the reconstruction of the vicissitudes of made in Italy, with an eye to future scenarios. In particular, among the lines of research related to corporate storytelling as an excellent case for the study of the qualities of made in Italy, the work on the important and still undervalued Maramotti School Fund plays a central role: the activities involve not only cataloging and archiving, but also the digitization of materials related to the development of the school (digitization of the heritage - and thus its transmissibility). The research will make it possible to clarify the role of the Maramotti School as a starting point for the construction of a method and a model of an Italian school of fashion design. The outcomes of the work will allow to consolidate and explicate the centrality of the Max Mara case for the made in Italy system, in a historical perspective and with respect to future evolutions.</p>	Università IUAV
<p><b>Scholarship number 11</b> Founded by: LUCE IN VENETO</p> <p><b>Topic:</b> Green revolution and ecological transition NRRP M4C2-Energy efficiency and building upgrading  <b>Project title:</b> Lighting and new conditions, tools, and technological research: artifacts, services, and spaces  <b>Description of activity:</b> Problems related to the design, management, and control of light have always been confronted with changing technological, as well as economic and sociocultural conditions regarding sources, production and distribution systems, artifact design, and functional solutions. The project intends to investigate aspects of ecosystem and digital transitions, as well as contexts of knowledge dissemination, bring new technological tools to bear and entail innovative opportunities related to the design of light in artifacts, systems and different types of spaces.</p>	Università IUAV
<p><b>Scholarship number 12</b> Founded by: QUESTIT s.r.l.</p> <p><b>Topic:</b> Digital transformation in food_M4C2  <b>Project title:</b> Digital transformation in food_M4C2  <b>Description of activity:</b> In relation to the proposed topic, the project should investigate the following areas:  1. Custom food design for specific dietary needs through use of digital technologies;  2. Parametric design for food design;  3. Reuse and reduction of food waste;  4. Design of foods with unconventional texture and appeal to make them more appealing.</p>	Università degli Studi di Siena
<p><b>Scholarship number 13</b> Founded by: MITA Academy</p> <p><b>Topic:</b> Innovation Competitiveness and Culture NRRP MC1  <b>Project title:</b> New models of advanced craft production  <b>Description of activity:</b> The research will investigate the interaction between craft and technology in manufacturing for high-end design, including fashion, with a particular focus on innovative</p>	Università degli Studi della Calabria

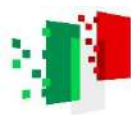


<p>techniques and supply chain management. The goal is to identify and develop new production models that integrate traditional craft processes with advanced digital technologies, including artificial intelligence. Synergies between design and production processes will be analyzed, with the intention of applying principles of efficiency, sustainability, and technological innovation.</p>	
<p><b>Scholarship number 14</b> Founded by: COSMOB s.p.a</p>	<p>Università degli Studi di Urbino</p> <p><b>Topic:</b> Sustainable innovation and competitiveness of products, services and processes for Made in Italy <b>Project title:</b> Quality, certifications, and new materials for the furniture industry. <b>Description of activity:</b> The research aims to analyze the options to be considered by manufacturing companies when defining the positioning of their offerings in relation to the degree of innovation (and related investments) to be pursued, the level of quality (and related certifications) and pricing policies. The issue lends itself to be analyzed from the triple perspective: industrial, marketing and control/administration. This perspective makes it possible to ensure coherence and coordination among three key areas of the enterprise system, highlighting how the concept of quality cannot be considered in an absolute way, but in relation to the positioning in the market that the enterprise intends to propose.</p>
<p><b>Scholarship number 15</b> Founded by: COSMOB s.p.a.</p>	<p>Università degli Studi Camerino</p> <p><b>Topic:</b> Design for circularity of products in the furniture sector (European ESPR Directive) <b>Project title:</b> Design for circularity of furniture products. Eco-design guidelines for the development of durable, repairable, maintainable, reusable, remanufacturable furniture <b>Description of activity:</b> Reducing waste production and extending the life of products are also key goals for the new European Directive on Eco-design, approved by the European Parliament in April 2024 (Eco-design for Sustainable Product Regulation, ESPR), which introduces principles and minimum standards on durability, reparability, reusability, energy efficiency and recycling of goods to counter accelerated obsolescence practices. The project, conducted in collaboration with Cosmob-Furniture Consortium of Pesaro, aims to define, through a participatory process by companies in the furniture sector, eco-design guidelines to make furniture products more circular and compliant with the criteria of the new European Directive, helping to increase design skills for circularity within Made in Italy companies.</p>
<p><b>Scholarship number 16</b> Founded by: EFENOVE s.r.l.</p>	<p>Università degli Studi della Basilicata</p> <p><b>Topic:</b> Digitalization, innovation, competitiveness and tourism NRRP_M1 <b>Project title:</b> Integrated approaches of 3D computer graphics and extended reality technologies (VR, AR, MR) for the enhancement of architectural and archaeological heritage <b>Description of activity:</b> The project aims to develop and apply innovative approaches based on Computer Graphic 3D and extended reality technologies (virtual, augmented and mixed reality) for the enhancement and enjoyment of architectural and archaeological heritage. The Ph.D. student will work closely with the company, contributing expertise and bringing a useful to 3D processing in order to create immersive and interactive tools to explore and better understand cultural heritage, enhancing the visitor experience and supporting the preservation and dissemination of historical heritage.</p>
<p><b>Scholarship number 17</b> Founded by: WORLD MUSIC ACADEMY</p>	<p>Conservatorio TCHAIKOVSKY di Nocera Terinese</p> <p><b>Topic:</b> Digital transition. Artificial intelligence as a driver of innovation in sound design. <b>Project title:</b> Real-time Music Generation and Interaction Through Artificial Intelligence</p>









n.1 (one) funded under Italian Ministerial Decree **DM 630/2024** PNRRP (M4C2 – “From Research to Enterprise”)

**Scholarship number 21**

Founded by: CROSSING s.r.l. .

Università Cà Foscari di Venezia

*Topic:* **Green revolution and ecological transition**

*Project title:* **Development of innovative systems for the valorisation of agro-industrial waste.**

*Description of activity:* The project aims to develop innovative technologies currently under development at Crossing Srl that envisage the reuse of agro-industrial waste but also from traditional fossil polymers for the production of new materials, including biodegradable materials for the manufacturing industry.

The project will allow the candidate to develop in-depth knowledge in the circular economy sector, to deepen issues related to strategies concerning Agenda 2030 and the development of zero-emission production cycles.

**n. 1 (one) Not funded scholarship**

**TOTAL: number 41 Scholarship**

**Procedure for admission tests**

- **An assessment of qualifications**, including the compulsory submission of a research project drafted in compliance with the call for applications;
- **An interview**, which will be performed in compliance with article 6, paragraph 8 of the call for applications;
- **An international language**, the knowledge of which will be tested during the interview: **ENGLISH**.

**Location and competition calendar**

These are going to be published on the Department's web page by **July 9th 2024**.

<https://www.salutementaleefisica.unicampania.it/didattica/dottorato-di-interesse-nazionale-in-pubblica-amministrazione-e-innovazione-per-la-disabilita-e-l-inclusione-sociale>

**Other useful information**

For all useful information, please consult the University website at

<https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca> e la seguente pagina web del Dipartimento <https://www.architettura.unicampania.it/ricerca/dottorato-di-ricerca-in-design-per-il-made-in-italy>

**Useful contacts**

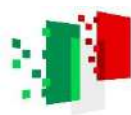
**Educational/scientific contact person:**

Prof.ssa Alessandra Cirafici  
email: [alessandra.cirafici@unicampania.it](mailto:alessandra.cirafici@unicampania.it)

**Administrative contact person:**

Dott./Dott.ssa Alessandra Esposito  
email: [alessandra.esposito@unicampania.it](mailto:alessandra.esposito@unicampania.it)

Annex number 11	
<b>DESCRIPTIVE SHEET OF THE INDUSTRIAL PhD COURSE IN TECHNOLOGIES FOR RESILIENT LIVING ENVIRONMENTS – Cycle XL</b>	
Coordinator	Prof. Sergio SIBILIO email: <a href="mailto:sergio.sibilio@unicampania.it">sergio.sibilio@unicampania.it</a>
Administrative headquarters of the Course	Department of ARCHITECTURE AND INDUSTRIAL DESIGN
Doctoral School: Director:	Polytechnic and Basic Sciences Prof. Oronzio MANCA
Duration	3 years
Scientific and disciplinary sectors:	L-ART/04 - ICAR/05 - ING-IND/11 - ICAR/17 - ICAR/09 - BIO/02 - ICAR/02 - ICAR/07 - ING-IND/10 - L-ANT/07 - ING-INF/01
COMPETITIVE POSITIONS OPEN	
<b>N. 14 (fourteen) WITH SCHOLARSHIP, of which:</b>	
- n. 2 (two) SCHOLARSHIPS financed by the University	
- n. 4 (four) SCHOLARSHIPS RESERVED for graduates of international Universities	
- n. 8 (eight) SCHOLARSHIPS with a <b>compulsory topic</b> of which:	
<p>n. <u>1</u> (one) funded under <b>Italian Ministerial Decree 629/2024</b> PNRR (M4C1 – Inv. 3.4 “Digital and environmental transitions”) funded by the University of Campania Luigi Vanvitelli</p> <p><b>Topic:</b> Digitization and Innovation, Competitiveness, Culture, and Tourism  <b>Title of the project:</b> For an ecosystem of culture  <b>Description of the activity:</b> The Internet, web platforms and digital technologies have determined unprecedented communication, sharing and exchange scenarios by intervening in individual capabilities and perceptions. They have redesigned the needs of communities by creating new value scenarios and new forms of the function of cultural heritage. The project will aim to research and/or design digital strategies for bb. cc. in line with the objectives of the National Plan for the digitalisation of cultural heritage and will aim at expanding accessibility to places of culture (museums, archaeological areas and parks, libraries and archives) to build and strengthen relationships between people, expressions of heritage and cultural activities and increase the ability to develop new meaning perspectives for the future.</p>	



n. 1 (one) funded under **Italian Ministerial Decree DM 629/2024** NRRP (M4C1 – Inv. 4.1 “NRRP Research”) funded by the University of Campania Luigi Vanvitelli

**Topic:** Health

**Title of the project:** Food and young people: sustainability, healthiness and resilience objective (ălăre)

**Description of the activity:** Locality and territoriality acquire educational centrality and with them Mediterranean food plants as dispensers of health and well-being in resilient living environments.

In this context, the nutrition of children and adolescents emerge sas a necessity in playing a fundamental role in obtaining a good level of physical and mental development and in improving the possibility of maintaing good health as an adult.

This requires the accessibility of new tools (digital and otherwise) which operate in terms of education and which can, through the acquisition of new awareness, effectively counteract the increasingly burdensome alterations in eating habits (+42% children/adolescents obese; DCA incidence already in children aged 8-10 years) and food poverty.

The project aims to achieve this objective through the development of a network of activities supported by innovative communication tools and the construction of food plans, with a highly local character, shared between universities, local authorities and schools.

n. 1 (one) funded under **Italian Ministerial Decree DM 630/2024** NRRP (M4C2 - “From Research to Enterprise”) co-funded by: CO.RI.S.T.A. consorzio and University of Campania Luigi Vanvitelli

**Topic:** Sustainable Mobility, Enhancement of High-Level Skills in the Industrial Sector

**Title of the project:** Near-real time SAR data processing for monitoring moving vehicles

**Description of the activity:** The activity focuses on the development of algorithms for the near real time processing of SAR (synthetic aperture radar) data aimed at monitoring "non-collaborative" vehicles. The study involves the analysis of the state of the art relating to real time SAR processing algorithms and the use of HPC technologies using computers with reduced consumption and dimensions. Scope is the definition of radar systems to be mounted on aerial platforms and/or spatial capable of providing output data to be used for motion detection and vehicle monitoring applications. Particularly, vehicles to be monitored are "non-collaborative" or passive targets from a radar point of view. The aim is to identify the characteristics of the radar data that allow the most immediate possible evaluation of the movements and positions of the targets (vehicles), i.e. before the complete processing of the data is reached. Possible technological solutions capable of providing the necessary computing power will then be explored and identified. A second part of the study concerns the evaluation of the use of AI techniques that can bring improvements to the data processing capacity and target detection (change detection).

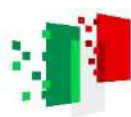
n. 2 (two) funded under **Italian Ministerial Decree DM 630/2024** NRRP (M4C2 - “From Research to Enterprise”) co-funded by: Boviari srl and University of Campania Luigi Vanvitelli

**Topic:** Architecture, Anthropized Environment, and Cultural Heritage

**Title of the project:** Dynamic identification methodologies and structural monitoring of historical monumental assets

**Description of the activity:** The research proposal aims to implement innovative methodologies for the knowledge and monitoring of monumental heritage. With reference to monumental masonry constructions (e.g., churches, bell towers, etc.), various monitoring and dynamic identification techniques (based on static and/or dynamic and single and/or continuous measurements) will be studied. The acquired data will be processed with the objective of proposing:

- A procedural protocol for an effective dynamic identification and structural monitoring of monumental masonry constructions based on various specific objectives;
- Development of strategies to determine modal frequencies and assess the potential presence of structural damages based on the interpretation of the results;



- Numerical modelling techniques to faithfully reproduce the real behaviour of the studied structures.

To achieve these results, a strong collaboration with the co-proposing company will be established. Additionally, the doctoral student will spend a period (3-6 months) at a foreign university to extend the adoption of the proposed methods to various structural types. The obtained results lay the foundation for a broader application field related to the preservation and conservation of cultural heritage. Therefore, the research proposal is strongly consistent with the PNRR Mission No. 1 "Digitalization, innovation, competitiveness, culture, and tourism."

**Topic:** Architecture, Anthropized Environment, and Cultural Heritage

**Title of the project:** Development of a data management and processing system collected by monitoring systems for existing structures

**Description of the activity:** The research project provides the definition, development, and verification of a dedicated Hardware/Software system for monitoring, predictive maintenance, and certification of the "health status" of existing constructions (e.g., residential, monumental, infrastructure, etc.). The activity will involve the implementation of a distributed service platform capable of reliably recording data measured by sensors installed on the structures to be monitored and, at the same time, performing processing on the collected data, generating verified information on the health status of the structure under analysis. Such information may be of various types, contributing to the definition of a synthetic indicator of the health status of the structure to be monitored over time, including the transmission of alert messages in case of "early warning" conditions.

n. 1 (one) funded under **Italian Ministerial Decree DM 630/2024** NRRP (M4C2 - "From Research to Enterprise") co-funded by: Federazione Nazionale degli Ordini dei Biologi and University of Campania Luigi Vanvitelli

**Topic:** Prevention and reduction of pollution

**Title of the project:** Constructed wastewater purification in a single phase using extremophilic algae: *Galdieria sulphuraria*

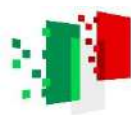
**Description of the activity:** The proposal aims to study and develop an innovative system for the phytoremediation of wastewater using *Galdieria sulphuraria*. Its metabolic versatility makes it a promising candidate for the treatment of flows with high chemical oxygen loading. The study will involve laboratory-scale cultivation with the optimization of chemical-physical parameters (time, pH, biomass productivity). The removal rate of the main organic and inorganic pollutants (NH<sub>4</sub><sup>+</sup>, NO<sub>2</sub><sup>-</sup>, NO<sub>3</sub><sup>-</sup>, PO<sub>4</sub><sup>3-</sup>, BOD, COD, metals) will be evaluated, as will microbiological analyses (pathogens) and the yield and effectiveness of the treatment through technical-economic analysis, which will consider the production costs and the benefits of purification. This approach could have a transformative impact on the sector, promoting the conservation of water resources and sustainable water management.

n. 1 (one) funded under **Italian Ministerial Decree DM 630/2024** NRRP (M4C2 - "From Research to Enterprise") co-funded by: DO.CA. Immobiliare s.a.s. di Donisi Carmine & C. and University of Campania Luigi Vanvitelli

**Tematica:** Architecture, Anthropized Environment, and Cultural Heritage

**Title of the project:** Preliminary Study for the Recovery and Enhancement of the "Historic Vanvitellian Caves"

**Description of the activity:** The project involves the restoration of a building in the historic center of Dugenta (BN) to implement new cultural, tourist, and accommodation activities while preserving its material, structural, aesthetic, and historical characteristics. The intervention includes the consolidation and restoration of the existing structures as well as the design of new areas and volumes to accommodate the new planned activities: cultural activities (exhibition space and



*museum), sale of local products, dining (cafeteria, restaurant, wine bar, tasting area, etc.), accommodation (guest rooms, etc.), a school of traditional arts and crafts, etc. The study should include: (i) historical and architectural analysis of the existing building, (ii) analysis of the building's consistency, (iii) restoration and valorization design, (iv) structural consolidation design, (v) selection of materials.*

n. 1 (one) funded under **Italian Ministerial Decree DM 630/2024** NRRP (M4C2 - "From Research to Enterprise") co-funded by: Telenia Srl and University of Campania Luigi Vanvitelli

**Topic:** Architecture, Anthropized Environment, and Cultural Heritage

**Title of the project:** Development of an Innovative LED Lighting System Adaptable to Historical Centers for the Enhancement of Tourist Routes

**Description of the activity:** The research will be aimed at the development, prototyping, and testing of a dynamic and modular H&S system of LED lights, where possible self-powered, based on sensors for interaction with the surrounding environment. The system will be developed to integrate non-invasively with commonly found elements in historical centers and will be configured for experimental application of perceptual pathways through light. Activities will focus on the creation of a networked lamp system (fixed and/or removable) for the display of pre-programmed sequences.

For the effects of the sequences, it is planned to alternatively or integratively use RGB/W LEDs. The possibility of integrating a small icon projection device into the system will also be studied.

The research aims to create a "lamp system" with an innovative and commercially attractive design that can be wall-mounted, functioning individually or in groups, and can also be housed in other elements present in the urban context when necessary.

**N. 3 (three) POSITIONS PROVIDED FOR EMPLOYEES OF ENTERPRISES (PhD executive), of which:**

n. 1 (one) PhD Executive position allocated to employees of Mater Soc. Cons. a R.L.

**Topic:** Health

**Title of the project:** Innovative approaches vs. antimicrobial resistance with extracts from medicinal plants grown in aeroponics

**Description of the activity:** The proposal aims to obtain phytochemicals for the treatment of bacterial and viral infections of the respiratory system. Official plants obtained from aeroponic cultivation will undergo extraction with supercritical fluids. The extraction technique, currently the most valid in terms of zero environmental impact, allows the preparation of extracts of high purity and quality. By operating in different conditions of temperature, pressure and CO2 flow, different phytocomplexes will be obtained, which will be chemically investigated and screened for their antibacterial (vs. *Streptococcus pneumoniae*, *Haemophilus influenzae*, *Staphylococcus aureus*) and antiviral (e.g. vs. SARS-CoV-2) properties. The most promising phytocomplexes will be nanoformulated and thus used for the development of one or more prototypes of administration devices.

n. 2 (two) PhD Executive position allocated to employees of ISTITUTO NAZIONALE DI GEOFISICA E VULCANOLOGIA (INGV)

**Topic:** Energy Transition

**Title of the project:** Innovative management of technological processes oriented towards energy efficiency connected to the disciplines of Energy Geo-Structures and advanced monitoring systems

**Description of the activity:** The PhD student will deal with the innovation of technologies in relation to energy efficiency connected to the disciplines of Energy Geo-Structures and advanced monitoring systems.

In particular he/she will provide for:

- provision of case studies completed or under construction in which the energy requirement for heating/cooling needs is covered by geothermal energy obtained through energy geostructures;





- collection of monitoring data from pilot case studies, in order to disseminate tools, methodologies, guidelines and good practices aimed at energy efficiency;
- assessment of the environmental and economic impact;
- dissemination of activities within the INGV outreach program.

**Topic:** Digitization and Innovation, Competitiveness, Culture, and Tourism

**Title of the project:** From Result Management to the Principle: evolution and impacts in the new Public Contracts Code

**Description of the activity:** The PhD student will actively contribute to the drafting of a project focused on the topic relating to "Result Administration" and its transformation into the "result principle", an essential reference parameter for the exercise of administrative activity, in light of the new Public contracts code.

In particular, the activities to be carried out will be:

- development of the theoretical and methodological research framework;
- definition of clear and measurable objectives;
- collection of sources;
- definition of research variables and hypotheses;
- promotion of transparency and accountability;
- drafting the text;
- design review, modifications and finalization;
- dissemination of activities within the INGV outreach program.

**N. 2 (two) WITHOUT SCHOLARSHIP**

**N. 19 (nineteen) OVERALL TOTAL**

#### Procedure for admission tests

- **An assessment of qualifications**, including the compulsory submission of a research project drafted in compliance with the call for applications;
- **An interview**, which will be performed in compliance with article 6, paragraph 8 of the call for applications;
- **An international language**, the knowledge of which will be tested during the interview: **ENGLISH**.

#### Location and competition calendar

These are going to be published on the Department's web page by **July 5 2024**.

<https://www.architettura.unicampania.it/ricerca/dottorato-di-ricerca-in-tecnologie-per-ambienti-di-vita-resilienti>

#### Other useful information

For all useful information, please consult the University website at the link <https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca> and the following Department web page <https://www.architettura.unicampania.it/ricerca/dottorato-di-ricerca-in-tecnologie-per-ambienti-di-vita-resilienti>

#### Useful contacts

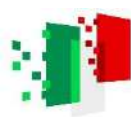
<b>Educational/scientific contact person:</b>	Prof. Sergio SIBILIO email: <a href="mailto:sergio.sibilio@unicampania.it">sergio.sibilio@unicampania.it</a>
<b>Administrative contact person:</b>	Dott. Francesco Iannone email: <a href="mailto:francesco.iannone@unicampania.it">francesco.iannone@unicampania.it</a>





Allegato n. 12	
DESCRIPTIVE SHEET OF THE PhD COURSE IN TRANSLATIONAL MEDICINE – Cycle XL	
Coordinator	Prof. Katherine ESPOSITO email: <a href="mailto:katherine.esposito@unicampania.it">katherine.esposito@unicampania.it</a>
Administrative headquarters of the Course	Department of ADVANCED MEDICAL AND SURGICAL SCIENCES
Doctoral School: Director:	LIFE SCIENCE Prof. Katherine ESPOSITO
Duration	3 years
Scientific and disciplinary sectors:	MED/13 - MED/04 - MED/05 - MED/06 - MED/09 - MED/11 - MED/14 - MED/16 - MED/18 - MED/23 - MED/26 - MED/30 - MED/36 - MED/37 - MED/38 - MED/40 - BIO/09 - BIO/14 - CHIM/11
Training programmes (to be activated by the Faculty Board after admission of the successful candidates to the course, based on the number of requests made in the application form and following the order of the ranking list of merit)	<ul style="list-style-type: none"> <li>Chronic diseases and complications: from bench to bedside;</li> <li>Clinical and molecular oncology;</li> <li>Translational approach to basic, clinical and surgical research.</li> </ul>
COMPETITIVE POSITIONS OPEN	
<b>N. 23 (twenty three) SCHOLARSHIPS, of which:</b>	
- n. 15 (fifteen) financed by the University	
- n. 7 (seven) SCHOLARSHIPS RESERVED for graduates of foreign universities	
- n. 1 (one) SCHOLARSHIPS <b>with a compulsory topic:</b> Funded under a valere sul Italian Ministerial Decree <b>DM 630/2024</b> NRRP (M4C2 – “From Research to Enterprise”) funded by the Enterprise BIOGEM SCARL.  <b>Topic:</b> Research_Health_General Pathology MED/04 <b>Title of the project:</b> Epigenomic alterations in pathologies <b>Description of the activity:</b> Epigenetic alterations are responsible for the onset of some pathologies including cancer. The project aims to characterize epigenetic regulators at a molecular and functional level, with particular reference to the classes of epigenetic writers and readers, most expressed in pathologies with high social impact. Through different experimental approaches in vitro and in vivo, it will be possible to identify and characterize specific molecules with epigenetic activity capable of acting in a selective and specific manner towards a specific class of epi-enzymes whose modulation will allow the restoration of correct cellular functioning.	
<b>N. 7 (seven) WITHOUT SCHOLARSHIP</b>	
<b>N. 30 OVERALL TOTAL</b>	
Procedure for admission tests	
<b>An assessment of qualifications</b> , including the compulsory submission of a research project drafted in compliance with the call for applications; <b>An interview</b> , which will be performed in compliance with article 6, co.8, of the call for applications; <b>An international language</b> , the knowledge of which will be tested during the interview: ENGLISH.	
Location and competition calendar	

These are going to be published on the Department's web page by <b>09 July 2024</b> <a href="https://www.damss.unicampania.it/didattica/dottorato-di-ricerca">https://www.damss.unicampania.it/didattica/dottorato-di-ricerca</a>	
<b>Other useful information</b>	
For all useful information, please consult the University website at <a href="https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca">https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca</a> and the following Department web page <a href="https://www.damss.unicampania.it/didattica/dottorato-di-ricerca">https://www.damss.unicampania.it/didattica/dottorato-di-ricerca</a>	
<b>Useful contacts</b>	
<b>Educational/scientific contact person:</b>	Prof. Katherine ESPOSITO email: <a href="mailto:katherine.esposito@unicampania.it">katherine.esposito@unicampania.it</a>
<b>Administrative contact person:</b>	Dott. Paolo Pariso email: <a href="mailto:paolo.pariso@unicampania.it">paolo.pariso@unicampania.it</a>



Allegato n. 13	
DESCRIPTIVE SHEET OF THE PhD COURSE IN BIOCHEMICAL AND BIOTECHNOLOGICAL SCIENCES – Cycle 40 <sup>th</sup>	
Coordinator	Prof. Michele CARAGLIA email: <a href="mailto:michele.caraglia@unicampania.it">michele.caraglia@unicampania.it</a>
Administrative headquarters of the Course	Department of PRECISION MEDICINE
Doctoral School:	LIFE SCIENCES
Director:	Prof. Katherine ESPOSITO
Duration	3 years
Scientific and disciplinary sectors:	BIO/09 – BIO/10 – BIO/12 – BIO/13 – BIO/14 – BIO/17 – BIO/16 – CHIM/03 – CHIM/07 – MED/04 – MED/06 – MED/07 – MED/28 – MED-05
Training programmes (to be activated by the Faculty Board after admission of the successful candidates to the course, based on the number of requests made in the application form and following the order of the ranking list of merit)	<ul style="list-style-type: none"> <li>• Biology, Biochemistry and Medical Biotechnology;</li> <li>• Microbiology and Pathophysiology.</li> </ul>
COMPETITIVE POSITIONS OPEN	
<b>18 (eighteen) WITH SCHOLARSHIP, of which:</b>	
- 10 (ten) SCHOLARSHIPS financed by the University	
- 06 (six) SCHOLARSHIPS RESERVED for graduates of international Universities	
- 02 (two) SCHOLARSHIPS with a compulsory topic of which:	
<p>2 (one) funded under <b>Italian Ministerial Decree 630/2024</b> (M4C2 - "From Research to Enterprise")</p> <p><b>Scholarship 1</b> Co-funded by Impresa BIOGEM scarl</p> <p><b>Tematica:</b> Genomic profiling in oncology. <b>Titolo del progetto:</b> Cancer gene alterations through single cell sequencing <b>Descrizione attività:</b> Techniques of single cell sequencing to detect significant gene alterations involved in tumour progression and to define the self-tailored therapeutic strategies in cancer patients.</p> <p><b>Scholarship 2</b> Co-funded by Impresa BioActive Surfaces</p> <p><b>Tematica:</b> Medical biotechnology and use of atomic forces microscopy and its applications in pharmacology, cell biology and biomedicine. <b>Titolo del progetto:</b> Biomimetic technologies for the design and production of human tissues and organs <b>Descrizione attività:</b> Surface biofunctionalization of surfaces, prosthesis and tips for atomic forces microscopy to design strategies for the production of human organs and tissues and for the establishment of artificial blood-brain barriers.</p>	
<b>N. 4 (four) WITHOUT SCHOLARSHIP</b>	
<b>22 (twenty-two) OVERALL TOTAL</b>	
Procedure for admission tests	

- An assessment of qualifications, including the compulsory submission of a research project drafted in compliance with the call for applications;
- An interview, which will be performed in compliance with article 6, paragraph 8 of the call for applications;
- An international language, the knowledge of which will be tested during the interview: ENGLISH.

#### ***Location and competition calendar***

These are going to be published on the Department's web page by **109 luglio 2024**.

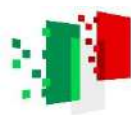
<https://www.medicinadiprecisione.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-biochimiche-e-biotecnologiche>

#### ***Other useful information***

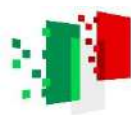
For all useful information, please consult the University website at:  
<https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca> e la seguente pagina web del Dipartimento  
<https://www.medicinadiprecisione.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-biochimiche-e-biotecnologiche>

#### ***Contatti utili***

<b>Educational/scientific contact person</b>	Prof. Michele CARAGLIA email: <a href="mailto:michele.caraglia@unicampania.it">michele.caraglia@unicampania.it</a>
<b>Administrative contact person:</b>	Dott. Laura Iannaccone email: <a href="mailto:laura.iannaccone@unicampania.it">laura.iannaccone@unicampania.it</a>



Annex number 14	
DESCRIPTIVE SHEET OF THE DOCTORAL RESEARCH COURSE IN BIOMOLECULAR SCIENCES - Cycle XL	
Coordinator	Prof. Angela CHAMBERY email: <a href="mailto:angela.chambery@unicampania.it">angela.chambery@unicampania.it</a>
Administrative headquarters of the Course	Department of ENVIRONMENTAL, BIOLOGICAL AND PHARMACEUTICAL SCIENCES AND TECHNOLOGIES
Doctoral School:	Life Sciences
Director:	Prof. Katherine ESPOSITO
Duration	3 years
Scientific and disciplinary sectors:	MED/08 - MED/03 - BIO/18 - BIO/10 - BIO/06 - CHIM/08 – M-EDF/01 - CHIM/03- CHIM/06 - BIO/09 - BIO/11 - BIO/12
COMPETITIVE POSITIONS OPEN	
<b>26 (twenty-six) WITH SCHOLARSHIP GRANTS, of which:</b>	
- 09 (nine) SCHOLARSHIPS financed by the University	
- 09 (nine) SCHOLARSHIPS RESERVED for graduates of international Universities	
- 01 (one) SCHOLARSHIPS RESERVED for scholarship holders/successful candidates of specific international mobility programmes (please refer to Annex "14A" Project Programme HORIZON.1.2 - Marie Skłodowska-Curie Actions (MSCA) ACTION- HORIZON-TMA-MSCA-DN; Call: HORIZON-MSCA-2021-DN-01) funded under the "European Training Program to Understand, Diagnose and Treat Autosomal Dominant Retinal Diseases" (ProgRET) Project	
- 07 (seven) SCHOLARSHIPS <b>with a compulsory topic</b>	
<p>of which <b>1 (one)</b> funded under Italian <b>Ministerial Decree 630/2024</b> NRRP (M4C2: From research to enterprise) funded by the Company Altergon Italia S.r.l.</p> <p><b>Topic:</b> HEALTH  <b>Title of the project:</b> Multifunctional polymeric platforms for biomedical applications  <b>Description of activities:</b> The aim of the research will be the development of polymeric platforms capable of performing multiple functions for the development of biomedical devices. The Platform will be optimized to release drugs in a targeted and controlled manner for the advanced therapy of pathologies with high social impact and to interact with cells and the extracellular matrix to promote tissue regeneration. The research will be based on the use of biocompatible polymers of both synthetic and natural origin such as proteins and polysaccharides and their derivatives and on the use of advanced technologies, such as microfluidic techniques and bioprinting capable of providing accurate control of biomedical devices properties.</p>	
<p>of which <b>1 (one)</b> funded under Italian <b>Ministerial Decree 630/2024</b> NRRP (M4C2: From research to enterprise) funded by the Company NGN Healthcare New Generation Nutraceuticals S.r.l.</p> <p><b>Topic:</b> HEALTH  <b>Title of the project:</b> Therapeutic potential and risk-assessment of products derived from wastes of oil production  <b>Description of activities:</b> Globally, agri-food waste amounts to over one billion tonnes per year, with more than 70% of the original biological material discarded. While the recycling of waste biomass for animal feed and biofuels is widespread, it has recently emerged an increased interest in using waste from the agri-food sector to extract bioactive molecules for human consumption. Currently, one of the most active recycling activities is related to the vegetable oil production industry (mainly palm and olive oil). In particular, waste from oil production represents a precious source of bioactive compounds, such as polyphenols and fatty acids, already recognized for their anti-inflammatory properties. Based on these considerations, a crucial aspect of the present doctoral project is represented by the evaluation of the therapeutic potential of</p>	



products deriving from oil production waste, focusing on the effectiveness in the prevention and control of metainflammation. The latter is a form of chronic low-grade inflammation identified as a prodromal factor of pathologies, including cardiometabolic diseases, obesity, diabetes, and neurodegenerative diseases. Through in-depth biochemical analyses and in vitro and in vivo studies, the doctoral project aims to evaluate the potential of these compounds in counteracting metainflammation, almost always generated by incorrect lifestyles and dietetic habits. The methodologies employed will include the characterization of the bioactive compounds present in olive oil waste, the analysis of their mechanisms of action at the cellular and molecular level, as well as the evaluation of their effects in animal models of chronic inflammation. Another objective of the doctoral project is represented by the risk assessment of postbiotic metabolites originating from the digestion and colonic fermentation of products derived oil production. Starting from the selection of specific by-products, an accurate chemical analysis of the bioactive components will be performed. Through a multidisciplinary approach that integrates mass spectrometry techniques, in vitro digestion simulations and in vivo biological risk assessment, therefore, the project fits into a context of food safety and sustainability, proposing innovative solutions for the reuse of waste in the pharmaceutical and nutraceutical fields.

of which **1 (one)** funded under Italian **Ministerial Decree 630/2024** NRRP (M4C2: From research to enterprise) funded by the Company INVENTIA BIOTECH Centro Ricerche Alimentari Healthcare S.r.l.

**Topic:** HEALTH

**Title of the project:** Therapeutic potential and risk-assessment of products derived from wastes of winery production

**Description of activities:** The doctoral project under consideration focuses on the analysis of the human health benefits associated with the supplementation of winemaking by-products. Wine production generates various waste, including grape skins, pomace and seeds, which represent food matrices particularly rich in biologically active molecules. The project will explore the potential therapeutic applications of these compounds in slowing senescence and treating pathologies related to neurodegeneration. The polyphenols and antioxidants present in these wastes can in fact play a crucial role in mitigating cellular aging processes and protecting nerve cells from oxidative damage. In parallel, the project will also evaluate possible risks associated with the biotransformation of molecules present in winemaking by-products during digestion and fermentation processes in the gastrointestinal tract. In order to guarantee effectiveness but also safety of use, it will be evaluated whether physiological digestive processes can lead to the formation of new metabolites, some of which are beneficial, while others could present health risks, especially if administered chronically. Therefore, the project aims to identify and characterize these p metabolites, evaluating their potential toxicity and effects on human health assess their in vivo safety.

of which **2 (two)** funded under Italian **Ministerial Decree 630/2024** NRRP (M4C2: From research to enterprise) funded by the Company Kedrion S.p.A.

**Topic:** HEALTH

**Title of the project:** Purification strategies of proteins of therapeutic interest from human plasma

**Description of activities:** The main focus of the research will be the development of new purification and characterization strategies of new proteins (to be identified) needed for treating rare and therapeutically unresolved diseases featuring their deficiency. To this end, priority will be given to the use of unused intermediates (industrial waste) from the industrial plasma fractionation process, taking advantage of the study of the proteomes of the produced and unused intermediates. The activities will enable acquisition and deepening of the following skills:

1. Fine-tuning and optimization of industrial purification steps, using a quality by design approach.
2. Fine-tuning and qualification of analytical methods for monitoring the process intermediates obtained during the various purification steps, and for characterizing the finished product using the guidelines of regulatory agencies.





<p>of which <b>1 (one)</b> funded by IEOS- the "Gaetano Salvatore" Institute for Experimental Endocrinology and Oncology - an entity of the Italian National Research Council, secondary Unit (CNR) on the project IR0000023-"SEELIFE-Strengthening the Italian Infrastructure of Euro-Bioimaging", cod.24C660A8 - NRRP – Public call for the submission of project proposals for "Strengthening and creation of Research Infrastructures" - D.D. 3264/2021, Mission 4 "Education and Research" - Component 2 "From research to enterprise", Investment 3.1, "Fund for the realization of an integrated system of research and innovation infrastructures - NextGenerationEU", ESFRI H&amp;F Area- CUP B53C22001810006- D.D. MUR of grant Prot.n.101 of 16/06/2022. WP1, Activity 1.1: Enhancement of the EuroBioimaging center in Naples.</p> <p><b>Topic:</b> HEALTH</p> <p><b>Title of the project:</b> Development and Application of Novel Imaging Techniques for Biomedicine Applications</p> <p><b>Description of activities:</b> The proposed research doctorate focuses on integrating nanovectors with advanced imaging techniques, particularly super-resolution microscopy, Raman microscopy, and fluorescence, for diagnostic and biosensing applications. Research activities initially involve the development and optimization of multifunctional nanovectors designed to deliver specific contrast agents and relevant biomolecules. Subsequently, these nanovectors will be characterized using high-resolution imaging techniques, including super-resolution microscopy, enabling the visualization of cellular and subcellular structures with unprecedented precision. Additionally, Raman microscopy and fluorescence will be utilized to study in detail the interactions between nanovectors and target biomolecules, with the aim of developing highly sensitive and specific biosensors. This multidisciplinary approach will expand knowledge in the field of biomedical diagnostics and facilitate the development of innovative tools for the monitoring and early diagnosis of pathologies.</p>	<p>of which <b>1 (one)</b> funded by IEOS- the "Gaetano Salvatore" Institute for Experimental Endocrinology and Oncology - an entity of the Italian National Research Council, secondary Unit (CNR)</p> <p><b>Topic:</b> HEALTH</p> <p><b>Title of the project:</b> Study of the role of the PARP12 enzyme in breast tumour progression.</p> <p><b>Description of activities:</b> The main theme of the research focuses on the molecular analysis of the role played by mono-ADP-ribosylation, catalysed by the PARP12 enzyme, in tumour progression and the development of resistance mechanisms in cellular models of breast carcinoma. First and foremost, the effects of this post-translational modification on modulating interactions and functions of the AKT kinase (a substrate already identified and validated by our previous studies) will be studied. In parallel, and more generally, the project aims to identify the ADP-ribosylproteome of cellular models "sensitive" to the action of PARP12, to identify and validate key targets in the survival and proliferation of oestrogen receptor-positive breast tumour cells, through the generation of inducible PARP12-knock-out lines using lentiviral systems. The project also includes the characterization of specific inhibitors for PARP12 in cellular models of breast tumour. The inhibitors with the greatest effect will then be tested on organoids obtained from breast tumour patient cells.</p>
<b>04 (four) WITHOUT SCHOLARSHIP</b>	
<b>30 (thirty) OVERALL TOTAL</b>	
<b>Procedure for admission tests</b>	
<ul style="list-style-type: none"> <li>- An assessment of qualifications, including the compulsory submission of a research project drafted in compliance with the call for applications;</li> <li>- An interview, which will be performed in compliance with article 6, paragraph 8, of the call for applications;</li> <li>- An international language, the knowledge of which will be tested during the interview: <b>ENGLISH.</b></li> </ul>	



<b>Location and competition calendar</b>	
These are going to be published on the Department's web page by <b>July 09 2024</b> <a href="https://www.distabif.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-biomolecolari">https://www.distabif.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-biomolecolari</a>	
<b>Other useful information</b>	
For all useful information, please consult the University website at <a href="https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca">https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca</a> and the following Department web page <a href="https://www.distabif.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-biomolecolari">https://www.distabif.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-biomolecolari</a>	
<b>Useful contacts</b>	
<b>Educational/scientific contact person</b>	Prof.ssa Angela CHAMBERY email: <a href="mailto:angela.chambery@unicampania.it">angela.chambery@unicampania.it</a>
<b>Administrative contact person:</b>	Dott.ssa Annamaria Piscitelli email: <a href="mailto:annamaria.piscitelli@unicampania.it">annamaria.piscitelli@unicampania.it</a>

## Annex 14A

### **DOCTORAL RESEARCH COURSE IN BIOMOLECULAR SCIENCES - Cycle XL**

Positions reserved for scholarship holders in the framework of specific  
international mobility programmes

*Programme:* HORIZON.1.2 - Marie Skłodowska-Curie Actions (MSCA)

*Call:* HORIZON-MSCA-2021-DN-01

*Funding Scheme:* HORIZON-TMA-MSCA-DN - HORIZON TMA MSCA Doctoral Networks

*Topic:* HORIZON-MSCA-2022-DN-01-01 - MSCA Doctoral Networks 2022

*Type of action:* HORIZON-TMA-MSCA-DN

*Project Full title:* "European Training Program to Understand, Diagnose and Treat Autosomal Dominant Retinal Diseases"

*Project Acronym:* ProgRET

*Grant Agreement:* n. 101120562

ProgRET is a project operated by a consortium of 8 partners (UGent-Belgium, RUMC-The Netherlands, UT-Germany, CSIC-Spain, Inserm-France, IMG-Czech Republic, Evotec-Germany, FTELE.IGM-Italy) based in 7 countries for the training of 10 PhD students. The ProgRET doctoral students are trained in a programme with joint scientific and technical courses, active participation in joint scientific events and an intensive inter-sectoral exchange plan. The programme uses the knowledge and expertise of the scientific partners receiving funding in the field of retinal biology and retinal diseases as well as in "omics" techniques also applied to the study of the retina, as a training platform to train 10 young researchers in the use of RNA-based procedures for the treatment of eye diseases. For additional information, please visit the website <https://cordis.europa.eu/project/id/101120562>.

The University of Campania Luigi Vanvitelli is a partner in the ProgRET project for training as part of the PhD course in Biomolecular Sciences.

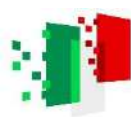
#### **OUTLINE OF THE SCIENTIFIC PROGRAMME**

The training programme is based on: 1) advanced level theoretical courses and laboratory training at the project's partner institutions; 2) specific courses on knowledge/skills complementary to scientific studies, such as scientific communication, project management, ethics, intellectual property and entrepreneurship; 3) exposure of students to the industrial sector with internships and site visits to enterprises.

The PhD positions subject to selection within the ProgRET project are mainly addressed to international students, or to Italian students who have resided or worked abroad for at least 24 months in the last 3 years.

RETORNA is coordinated by UNIVERSITEIT GENT, UGent. One of the beneficiary partners is the Telethon Institute of Genetics and Medicine (TIGEM) of the Telethon Foundation and the University of Campania "Luigi Vanvitelli" is an affiliated Partner.

Within the framework of the ProgRET project, 1 (one) position is planned for the Telethon Institute of Genetics and Medicine (Telethon Foundation) reserved for successful scholarship holders whose financial coverage is directly provided by the Telethon Foundation from European funds in the role of beneficiaries.



Attachment no. 15	
DESCRIPTIVE SHEET OF THE PHD COURSE IN. CLINICAL AND EXPERIMENTAL MEDICAL SCIENCES - 40th Cycle.	
Coordinator	<b>Prof. Armida MUCCI</b> email: armida.mucci@unicampania.it
Course administrative headquarters	Department of MENTAL AND PHYSICAL HEALTH AND PREVENTIVE MEDICINE.
Doctoral School: Director:	Life Sciences Prof. Katherine ESPOSITO
Duration	3 years
Scientific and disciplinary fields:	BIO/09 - BIO/10- BIO/11 - BIO/14- BIO/16 - FIS/07 - ING-INF/06 - MED/04 - MED/06 - MED/09 - MED/12 - MED/14 - MED/18 - MED/19 - MED/21 - MED/24- MED/25 - MED/26 - MED/31 - MED/34 - MED/35 - MED/37 - MED/39
Training curricula (to be activated by the Teachers' Board following the admission of successful candidates to the course, based on the number of applications made in the application for the competition and following the order of ranking)	<ul style="list-style-type: none"> <li>• Nephrology;</li> <li>• Gastroenterology/Nutrition;</li> <li>• Internal Medicine/Geriatrics;</li> <li>• Neurology;</li> <li>• Child Neuropsychiatry;</li> <li>• Psychiatry.</li> </ul>
COMPETITIVE POSTS	
<b>No. 22 WITH SCHOLARSHIP of which:</b>	
- No. 13 University-funded scholarships.	
- No. 7 SCHOLARSHIPS RESERVED for graduates of foreign universities.	
- No. 2 SCHOLARSHIP(s) with a <b>restricted theme</b>	
of which no. 1 from <b>DM 630/2024</b> PNRR (M4C2 - "From Research to Enterprise") funded by the BIOGEM Enterprise  <b>Theme:</b> Health <b>Project title:</b> Translational Nephrology <b>Activity Description:</b> Utilization of translational models in nephrological diseases.	
of which no. 1 from <b>DM 630/2024</b> PNRR (M4C2 - "From Research to Enterprise") funded by the BIOGEM Enterprise  <b>Theme:</b> Health <b>Project title:</b> Pathophysiology of kidney diseases <b>Activity Description:</b> Use of imaging techniques and animal models to study the pathophysiology of kidney diseases	
<b>NO. 6 WITHOUT SCHOLARSHIP</b>	
<b>NO. 28 TOTAL POSITIONS</b>	
Mode of conducting admission tests	
- <b>Evaluation of qualifications</b> , including the mandatory submission of a research project prepared following the notice of competition; - <b>Interview</b> , which will be conducted in the manner specified in Art. 6(8) of the notice of competition;	

- <b>Foreign language knowledge</b> , which will be tested at the interview: <b>ENGLISH</b> .	
<b>Competition venue and schedule</b>	
It will be published on the Department's webpage by <b>July 09, 2024</b> . <a href="https://www.salutementaleefisica.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-mediche-cliniche-e-sperimentali">https://www.salutementaleefisica.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-mediche-cliniche-e-sperimentali</a>	
<b>Other useful information</b>	
For any useful information, please consult the University website at <a href="https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca">https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca</a> and the following Department webpage <a href="https://www.salutementaleefisica.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-mediche-cliniche-e-sperimentali">https://www.salutementaleefisica.unicampania.it/didattica/dottorato-di-ricerca-in-scienze-mediche-cliniche-e-sperimentali</a>	
<b>Useful contacts</b>	
<b>Educational/scientific contact person:</b>	Prof. Armida MUCCI <i>email:</i> armida.mucci@unicampania.it
<b>Administrative contact person:</b>	Dr.: Carmela Maddaloni <i>email:</i> carmela.maddaloni@unicampania.it





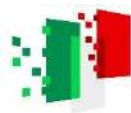
**Allegato n. 16**

**DESCRIPTIVE SHEET OF THE DOCTORAL RESEARCH COURSE OF NATIONAL INTEREST IN PUBLIC ADMINISTRATION AND INNOVATION FOR DISABILITY AND SOCIAL INCLUSION - Cycle 40°**  
**SCHEDA DESCRITTIVA DEL CORSO DI DOTTORATO DI RICERCA IN**  
**DOTTORATO DI INTERESSE NAZIONALE IN PUBBLICA AMMINISTRAZIONE E INNOVAZIONE PER LA**  
**DISABILITÀ E L'INCLUSIONE SOCIALE - 40° Ciclo**

Coordinator	<b>Prof. Francesca GIMIGLIANO</b> e-mail: <a href="mailto:francesca.gimigliano@unicampania.it">francesca.gimigliano@unicampania.it</a>
Administrative headquarters of the Course	Department of MENTAL AND PHYSICAL HEALTH AND PREVENTIVE MEDICINE
Doctoral School: Director:	Life Sciences Prof. Katherine ESPOSITO
Duration	3 ayears
Scientific and disciplinary sectors:	ICAR/13, ING-INF/06, ING-IND/10, IUS/01, IUS/07, IUS/10, IUS/19, IUS/20, IUS/21, M-EDF/01, M-PED/01, M-PED/03, M-PSI/01, M-PSI/03, M-PSI/05, M-PSI/08, M-STO/04, MED/01, MED/09, MED/25, MED/27, MED/28, MED/32, MED/33, MED/34, MED/37, MED/39, MED/43, MED/49, SECS-P/02, SECS-P/10
Training programmes (to be activated by the Faculty Board after admission of the successful candidates to the course, based on the number of requests made in the application form and following the order of the ranking list of merit)	<ul style="list-style-type: none"> <li>• Rehabilitation Medicine;</li> <li>• Mental Health and Psychological wellbeing;</li> <li>• Ageing;</li> <li>• Pedagogy, Didactics and Special Pedagogy;</li> <li>• ICT and Bioengineering;</li> <li>• Legal-business area.</li> </ul>

**COMPETITIVE POSTS**

<b>32 (thirty-two) SCHOLARSHIP GRANTS, of which:</b>
- 5 (five) scholarships funded by the University Vanvitelli
- 1 (one) scholarship funded by the Mercatorum University
- 1 (one) scholarship funded by the European University of Rome
- 1 (one) scholarship funded by the University of Catanzaro
- 1 (one) scholarship funded by the University of Foggia
- 1 (one) scholarship funded by the University of Palermo
- 1 (one) scholarship reserved for graduates of international Universities
- 21 (twenty-two) SCHOLARSHIPS with a compulsory topic of which:
8 (eight) funded under Italian Ministerial Decree <b>629/2024</b> NRRP (M4C1 – Inv. 4.1 “Public Administration”) funded by the University of Campania Luigi Vanvitelli



#### Scholarship number 1

**Topic:** Legal-business area

**Project title:** Destination documents relating to people with disabilities and deservingness check

**Description of activity:** The art. 2645 ter of the Civil Code provides for an atypical segregation instrument, although its scope of application also includes already existing capital constraints, of which it would limit itself to regulating the advertising compliance. Whatever declination it has, the deed of destination must aim at the "realisation of interests worthy of protection". Despite the textual reference to another provision, it is not certain that the merit of the interest pursued through the deed of destination is the same as that, pursuant to art. 1322 of the Civil Code, concerns any act of autonomous negotiation. A careful reflection on the point requires also verifying the possible size of the destination object, the structure and form of the act, as well as the methods of carrying out the function.

#### Scholarship number 2

**Topic:** Legal-business area

**Project title:** Protection of children in places of detention between punitive demands and social inclusion

**Description of activity:** The need to preserve the healthy development of minor children of subjects receiving detention measures, attempting to reconcile the State's punitive claim with the aim of avoiding a traumatic break in emotional relationships, explains the approach adopted by the legislator to date back to the 70s of the last century. The original wording of the art. 11 of the law. n. 354/1975 allowed detained mothers to keep their children with them until the age of 3, also providing for the establishment of nurseries for the care and assistance of minors; subsequent interventions have perfected the child protection regime in order to guarantee their healthy psycho-physical development. In particular, the establishment of attenuated custody institutions for detained mothers (ICAM) responds to this function, located outside the prison walls and characterized by less invasive security measures. However, the constitutional importance of the protection of the minor's person, together with the centrality of his best interest, could suggest a rethinking of the traditional approach to the topic of parenting in prison, capable of encouraging the adaptation of the substantive and procedural rules to the principles and values expressed by the sorting.

#### Scholarship number 3

**Topic:** Legal-business area

**Project title:** Gender and disability in public administration work

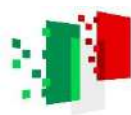
**Activity description:** Starting from a historical-legal investigation, the research aims to examine the discriminatory phenomenon towards the female gender in accessing careers and in the difficulty in holding top roles up to the analysis of the most recent legislative updates.

#### Scholarship number 4

**Topic:** Legal-business area

**Project title:** Discrimination against people with disabilities in the workplace: spaces and functions for compensation protection

**Activity description:** The research aims to delve deeper into the complex relationship between discrimination and disability as it is expressed in the working context, starting from an analysis of national and supranational sources and the copious jurisprudence, including Euro-unitary, which has intervened in this regard. In this framework, the reflection focuses on the techniques defined by anti-discrimination law and on the spaces and functions to be recognized for compensation protection, taking into account the "multi-functionality" of compensation for damages, especially in the workplace, where the prejudices caused by the employer have significant repercussions on the worker, a weak subject in a contractual relationship in which the person is strongly implicated.



#### Scholarship number 5

**Topic:** Legal-business area

**Project title:** Disability and NRRP: what constraints and opportunities for public administrations?

**Activity description:** The National Recovery and Resilience Plan reserves particular attention to the issues of disability and inclusion, soliciting a transversal commitment from multiple competent administrations. For the design and implementation of projects, reforms and measures regarding disability, financed by the resources made available by the NRRP, public administrations are required to adopt an inclusive design method and to comply with the four key principles of Accessibility; Design for All, Promotion of independent living and self-determination, Principle of non-discrimination. The working method is based on public consultation of associations representing people with disabilities in the definition of individual actions, while the monitoring and verification of the degree of social inclusiveness of investments is attributed to the National Observatory on the condition of people with disabilities (Directive of 9 February 2022, Presidency of the Council of Ministers). Starting from these data, the research intends to investigate the concrete implementation of these interventions and, therefore, the tools and guarantees for the full implementation of the principles mentioned, with particular attention to the forms of public consultation in the decision-making and planning processes. This is both in order to verify consistency with supranational and national legislation and to reflect on the protections that can be activated in the event of any violations or omissions by administrations.

The investigation extends to the opportunities that can arise from a full implementation of the inclusive measures underlying the Plan in the context of public administrations and from the implementation of the framework law on disability (law no. 227/2021).

#### Scholarship number 6

**Topic:** Mental Health and Psychological Wellbeing

**Project title:** Promotion of sporting activities as a tool for social inclusion in patients with serious mental disorders

**Activity description:** Development of an action plan to improve the design of public policies relating to the topic of sporting activity as a tool to promote the psychosocial rehabilitation of patients with serious mental disorders and promote their social integration. In particular, the project will have to evaluate the actions currently available regarding the topic of sport and mental health, with the detailed analysis of a macro-regional context, for the evaluation of the type of activities available, users who use the service and impacts on a public social level. The final objective is to draw up a working plan to define how to implement these sport-based strategies to improve the social integration of patients with serious mental disorders.

#### Scholarship number 7

**Topic:** Mental Health and Psychological Wellbeing

**Project title:** Support for families of patients with serious mental disorders - innovative psychosocial interventions and anti-stigma initiatives

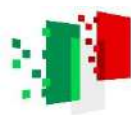
**Activity description:** Evaluation of the capacity of the national health service to offer support and assistance to family members of patients with serious mental disorders. Evaluation of the difficulties and main obstacles to accessing care, evaluation of the role of social stigma in hindering the request for help and support for family members of patients with mental disorders. Development of a policy at a social level, with anti-stigma initiatives to convey correct information on mental disorders and at an individual level of family members of patients with serious mental disorders.

#### Scholarship number 8

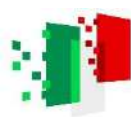
**Topic:** Mental Health and Psychological Wellbeing

**Project title:** Specific learning disorder and scholastic and social inclusion

**Activity description:** To examine, in an Italian population of children and adolescents with DSA, the relationship between awareness of one's character strengths, self-concept, personal well-being and level of scholastic and social inclusion. We hypothesize that a better knowledge of this relationship



could be used to increase internal resources (strengths and self-perception) and contribute to increasing the degree of scholastic and social inclusion and thus contribute to the well-being of individuals with Specific learning disorders.
<p>1 (one) funded under Italian Ministerial Decree <b>629/2024</b> NRRP (M4C1 – Inv. 4.1 “Public Administration”) funded by the Federico II University of Naples</p> <p><b>Topic:</b> Mental Health and Psychological Wellbeing  <b>Project title:</b> Inclusion and job placement of people with disabilities  <b>Activity description:</b> The research and action project intends to study the possible prospects for social and working inclusion of disabled people with particular attention to post-graduate inclusion, also in reference to the ICF classification criteria.</p>
<p>2 (two) funded under Italian Ministerial Decree <b>629/2024</b> NRRP (M4C1 – Inv. 4.1 “Public Administration”) funded by the Scuola Superiore Meridionale</p> <p><b>Scholarship numbers 1 and 2</b>  <b>Topic:</b> Legal-business area  <b>Project title:</b> <i>Disability studies: Private Law and Corporate Organisation.</i>  <b>Activity description:</b> The study of disability using the intertwining of the disciplinary frameworks of Private Law - IUS/01 and Business Organisation - SECS/P10.</p>
<p>7 (seven) funded under Italian Ministerial Decree <b>DM 630/2024</b> NRRP (M4C2 - “From Research to Enterprise”) co-funded by the University of Campania Luigi Vanvitelli.</p> <p><b>Scholarship 1</b> co-funded by: Innovaway</p> <p><b>Topic:</b> Rehabilitation Medicine  <b>Project title:</b> Artificial intelligence in cancer research, diagnosis and therapy  <b>Task Description:</b> Understand the fundamentals of modern artificial intelligence, including the role data and computing play in creating successful applications, to improve overall precision medicine in cancer and resulting patient experiences and outcomes. Evaluate existing AI systems in healthcare to quantify their strengths and weaknesses. Identify new opportunities to meet modern healthcare needs with artificial intelligence. Artificial intelligence has been heavily integrated into many aspects of cancer research, such as standardizing large datasets and biobanks, elucidating the roles of modifiable risk factors, discovering new biomarkers or drug targets, modeling forecasting and knowledge graphs and the creation of a new service platform. AI-driven healthcare solutions can offer more personalized and precise treatment options and better health outcomes.  <b>Tematica:</b> Medicina Riabilitativa</p> <p><b>Scholarship 2</b> co-funded by: Sbarro Research Health Organization</p> <p><b>Topic:</b> Rehabilitation Medicine  <b>Project title:</b> Biological mechanisms underlying sports performance  <b>Activity description:</b> The understanding of the biological mechanisms that justify the acute and chronic physiological responses to exercise interventions determines the development of training principles and methods. Understanding the effects of exercise on humans can help researchers identify what causes specific biological changes and correctly identify the most appropriate processes</p>



for implementing an exercise stimulus. Understanding biological variability in humans and how specific human characteristics may underlie different responses to the same training program.

### Scholarship 3

co-funded by: Fondazione Don Carlo Gnocchi Onlu

**Topic:** Rehabilitation Medicine

**Project title:** Artificial Intelligence and Robotics for the Analysis of Clinical Outcomes: Innovations and Applications

**Activity description:** Explore the advanced use of Artificial Intelligence (AI) and robotics to improve the analysis of clinical outcomes and optimize medical decisions. Through predictive algorithms and machine learning techniques, the project aims to personalize treatments and improve care procedures.

### Scholarship 4

co-funded by: CEM Casa di Cura S. Maria del Pozzo SpA

**Topic:** Rehabilitation Medicine

**Project title:** Added value of virtual reality in the social inclusion of patients with disabilities

**Activity description:** Therapeutic adherence and degree of satisfaction of children and adults with neurological disabilities to treatment with virtual reality with particular attention to outcomes relating to social participation.

### Scholarship 5

co-funded by: Società Centro Dorso

**Topic:** Legal-business area

**Project title:** Redevelopment of urban spaces and social inclusion with regard to Southern Italy.

**Activity description:** Through the diffusion of the principles of active solidarity and integrated urban planning, aimed at the revitalization and improvement of degraded urban areas of the national territory, it is possible to achieve goals of better inclusion and social integration. These actions are even more effective in highly complex territorial contexts, such as Southern Italy, where there is a high need for urban, environmental and social redevelopment. It is useful in this direction to reflect on the contractual forms suitable for the creation of a better collaboration between third sector bodies and public administration, with an enhancement of the public-private partnership and with the active involvement of a network of associations aimed at the care of subjects in condition of fragility. On the other hand, it is also appropriate to think about the promotion of new forms of financing for projects of this type, including through crowdfunding.

### Scholarship 6

co-funded by: Società Calenia

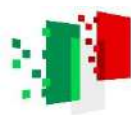
**Topic:** Legal-business area

**Project title:** The commitment to inclusion policies of companies that are rooted in the territory in the name of social sustainability and innovation

**Activity description:** The objective of the research project is to analyze, implement and validate inclusion paths and practices in companies that invest in a context of ecological and sustainable transition.

### Scholarship 7

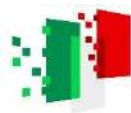
co-funded by: Società COSER



<p><b>Topic:</b> Legal-business area</p> <p><b>Project title:</b> Gender equality and PdR 125:2022</p> <p><b>Activity description:</b> The research project is aimed at investigating UNI/PdR 125:2022 which defines the guidelines of a management system for gender equality in companies as a commitment to the issues of diversity and inclusiveness.</p>
<p>1 (one) funded under Italian Ministerial Decree <b>DM 630/2024</b> NRRP (M4C2 - "From Research to Enterprise") co-funded by Anffas Macerata and the University of Macerata</p> <p><b>Topic:</b> Pedagogy, Didactics and Special Pedagogy</p> <p><b>Project title:</b> New models for the work integration of young people with disabilities</p> <p><b>Activity description:</b> The project involves the study of new models for the work integration of young people with disabilities. After the recognition of the state of the art of the subject, we will move on to the experimentation of a new protocol relating both to the activation of new procedures for the work integration of young people with disabilities and to the creation of innovative training courses for entrepreneurs and company tutors. The activities will be carried out within the work inclusion formats of the Anffas Macerata Foundation.</p>
<p>1 (one) funded under Italian Ministerial Decree <b>DM 630/2024</b> NRRP (M4C2 - "From Research to Enterprise") co-funded by Tech4Care and the the Polytechnic University of Marche</p> <p><b>Topic:</b> Rehabilitation Medicine</p> <p><b>Project title:</b> Immersive virtual rehabilitation: enhancing functional recovery after stroke through technology</p> <p><b>Activity description:</b> The project intends to contribute to the advancement of knowledge on the neurophysiological prerequisites of post-stroke recovery through the mapping of the EEG signal during upper limb rehabilitation activities in the real or simulated virtual reality environment; the project also aims to develop innovative approaches or optimize resources already available in terms of commonly used technological tools (Google glasses) through the integration of software (serious games) customized for motor and cognitive disability profiles; finally, the project will be able to impact the sustainability of rehabilitation activities, making low-cost portable hardware platforms accessible to patients at home for a pleasant, effective and long-lasting training experience.</p>
<p>1 (one) funded by the Federico II University of Naples– SINAPSI Centre</p> <p><b>Topic:</b> Mental Health and Psychological Wellbeing</p> <p><b>Project title:</b> Methods and tools for relational mediation in the academic context</p> <p><b>Activity description:</b> The research and action project intends to investigate the contextual and relational dimensions that can favor the academic inclusion of neurodiverse university students and possible intervention programs (tutoring, coaching, relational mediation, etc.) that can favor their adaptation social.</p>
<p><b>Procedure for admission tests</b></p> <ul style="list-style-type: none"> <li>- <b>An assessment of qualifications</b>, including the compulsory submission of a research project drafted in compliance with the call for applications;</li> <li>- <b>An interview</b>, which will be performed in compliance with article 6, paragraph 8 of the call for applications;</li> <li>- <b>An international language</b>, the knowledge of which will be tested during the interview: <b>ENGLISH</b>.</li> </ul>
<p><b>Location and competition calendar</b></p> <p>These are going to be published on the Department's web page by <b>July 9th 2024</b>.  <a href="https://www.salutementaleefisica.unicampania.it/didattica/dottorato-di-interesse-nazionale-in-pubblica-amministrazione-e-innovazione-per-la-disabilita-e-l-inclusione-sociale">https://www.salutementaleefisica.unicampania.it/didattica/dottorato-di-interesse-nazionale-in-pubblica-amministrazione-e-innovazione-per-la-disabilita-e-l-inclusione-sociale</a></p>



<b>Other useful information</b>	
For all useful information, please consult the University website at <a href="https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca">https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca</a> and the following Department web page <a href="https://www.salutementaleefisica.unicampania.it/didattica/dottorato-di-interesse-nazionale-in-pubblica-amministrazione-e-innovazione-per-la-disabilita-e-l-inclusione-sociale">https://www.salutementaleefisica.unicampania.it/didattica/dottorato-di-interesse-nazionale-in-pubblica-amministrazione-e-innovazione-per-la-disabilita-e-l-inclusione-sociale</a>	
<b>Useful contacts</b>	
<b>Educational/scientific contact person</b>	Prof. Francesca GIMIGLIANO email: <a href="mailto:francesca.gimigliano@unicampania.it">francesca.gimigliano@unicampania.it</a>
<b>Administrative contact person:</b>	Dott. Rosa Santo email: <a href="mailto:rosa.santo@unicampania.it">rosa.santo@unicampania.it</a>



<b>Allegato n. 17</b>	
<b>DESCRIPTIVE SHEET OF THE PHD COURSE IN PUBLIC HEALTH – 40th Cycle</b>	
Coordinator	<b>Prof. Umberto GALDERISI</b> email: <a href="mailto:umberto.galderisi@unicampania.it">umberto.galderisi@unicampania.it</a>
Administrative Office of the Course	Department of EXPERIMENTAL MEDICINE
Doctoral School:	Life Science
Director:	Prof. Katherine ESPOSITO
Duration	3 anni
Scientific Sectors	MED/01 - MED/08 - MED/17 MED/42 - MED/43 - MED/44 - MED/45 - MED/46 - MED/50 - BIO/11 BIO/13 - IUS/09 - SECS-P/07
Educational Curricula (to be activated by the Academic Board following the admission of the winners to the course, based on the number of requests submitted in the application for the competition and following the ranking order)	<ul style="list-style-type: none"> <li>• Epidemiological Methodology and Public Health</li> <li>• Social Medicine</li> <li>• Innovative Diagnostics</li> <li>• Cellular and Molecular Biology in Regenerative and Reproductive Medicine</li> <li>• Health Economics and Management</li> </ul>
<b>AVAILABLE POSITIONS</b>	
<b>N. 10 WITH SCHOLARSHIPS including:</b>	
- n. 6 Scholarship funded by the University	
<p>No. 1 SCHOLARSHIP funded by the University through the PNRR - PNC (project code PREV-A-2022-12376981)</p> <p>funded by the Luigi Vanvitelli Campania University</p> <p><i>topic:</i> Prevention and reduction of health risks related to air pollution  <i>project title:</i> Outdoor air and health: an integrated atlas to support decisions and research: integrated air quality and health atlas  <i>activity description:</i> The research activity is part of the specific objectives of PNC research project no. 3 (research and development of monitoring) and no. 4 (impact assessments). The general objective is to create a territorial atlas on air quality and health outcomes in a system capable of coordinating the generation, processing, interpretation, and utilization of available data. Specifically, it involves the spatial-temporal harmonization of regional environmental data and the identification of health outcomes, the creation of maps, and impact assessments for pollutants and considered outcomes with concentration-response function estimates. It also includes verifying available data on non-conventional pollutants, evaluating data on the contribution of different emission sources to particulate matter, and analyzing non-consolidated health outcomes. Evaluation of the methodology for estimating the association between environmental exposure and health in cohort studies.</p>	
No. 2 SCHOLARSHIPS RESERVED for graduates from foreign universities	
No. 1 SCHOLARSHIP with a specified theme	
<p>No. _____ funded through DM 629/2024 PNRR (M4C1 – Inv. 3.4 "Digital and Environmental Transitions")  funded by: University of Vanvitelli or University _____  topic: _____  project title: _____  activity description: _____</p>	



<p>No. 1 SCHOLARSHIP through DM 630/2024 PNRR (M4C2 – "From Research to Business")  funded by: Biomol Laboratories and University  <i>topic:</i> Biotechnology for health  <i>project title:</i> Innovative technical procedures in the field of dietary supplements (scholarship co-funded by Biomol Laboratories srl).  <i>activity description:</i> The research will focus on the development of diagnostic tools for the molecular characterization of neoplasms, study of biochemical processes, analytical chemistry, and cellular and molecular biology for the development of dietary supplements from natural substances. The project includes a study and research period at Biomol Laboratories srl (minimum 6 months).</p>	
<p>di cui n. _____ finanziata/e dall'Università di _____</p> <p><i>tematica:</i> _____</p> <p><i>titolo del progetto:</i> _____</p> <p><i>descrizione attività</i> _____</p>	
<p>di cui n. _____ finanziata/e dall'Ente _____</p> <p><i>tematica:</i> _____</p> <p><i>titolo del progetto:</i> _____</p> <p><i>descrizione attività</i> _____</p>	
<p><b>N. 3 WITHOUT SCHOLARSHIP</b></p>	
<p><b>N. 13 TOTAL</b></p>	
<p><b>Admission Exam Procedures</b></p> <p>- Evaluation of qualifications, including the mandatory presentation of a research project prepared according to the guidelines of the competition notice;  - Interview to be conducted according to the methods indicated in Art. 6, para. 8, of the competition notice;  - Foreign language to be tested during the interview: ENGLISH.</p>	
<p><b>Exam Location and Schedule</b></p> <p>Will be published on the Department's webpage by July 5, 2024.  Department of Experimental Medicine - PhD in Public Health</p>	
<p><b>Additional Information</b></p> <p>For more useful information, consult the University website at the following link: University of Campania - PhD Programs and the following Department webpage: Department of Experimental Medicine - PhD in Public Health</p>	
<p><b>Contact Information</b></p>	
<p><b>Educational/Scientific contact:</b></p>	<p>Prof. Umberto GALDERISI  <i>email:</i> <a href="mailto:umberto.galderisi@unicampania.it">umberto.galderisi@unicampania.it</a></p>
<p><b>Administrative contact:</b></p>	<p>Dott. Vincenzo LAUDANDO  <i>email:</i> <a href="mailto:vincenzo.laudando@unicampania.it">vincenzo.laudando@unicampania.it</a></p>



**Annex number 18**

**DESCRIPTIVE SHEET OF THE PhD COURSE IN  
IN THE SCIENCES OF THE CRITICAL AREA- XL Cycle**

Coordinator	<b>Prof. Maria Caterina PACE</b> email: <a href="mailto:mariacaterina.pace@unicampania.it">mariacaterina.pace@unicampania.it</a>
Administrative headquarters of the Course	Department of WOMEN AND CHILDREN AND GENERAL AND SPECIALISTIC SURGERY
Doctoral School:	LIFE SCIENCE
Director:	Prof. Katherine ESPOSITO
Duration	3 years
Scientific and disciplinary sectors:	MED/41 - BIO/14 - MED/38 - MED/25
<b>COMPETITIVE POSITIONS OPEN</b>	
<b>6 (six) WITH SCHOLARSHIPS, of which:</b>	
- 04 (four) SCHOLARSHIPS financed by the University	
- 02 (two) SCHOLARSHIP reserved for graduates of international universities	
<b>2 (two) WITHOUT SCHOLARSHIP</b>	
<b>8 (eight) OVERALL TOTAL</b>	
<b>Procedure for admission tests</b>	
<ul style="list-style-type: none"> <li>- <b>An assessment of qualifications</b>, including the compulsory submission of a research project drafted in compliance with the call for applications;</li> <li>- <b>An interview</b> which will be performed in compliance with article 6, paragraph 8, of the call for applications;</li> <li>- <b>An international language</b> the knowledge of which will be tested during the interview: <b>ENGLISH</b>.</li> </ul>	
<b>Location and competition calendar</b>	
These are going to be published on the Department's web page by <b>July 9 2024</b> <a href="https://www.dipdbc.unicampania.it">https://www.dipdbc.unicampania.it</a>	
<b>Other useful information</b>	
For all useful information, please consult the University website at <a href="https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca">https://www.unicampania.it/index.php/didattica/dottorati-di-ricerca</a> and the following Department web page <a href="https://www.dipdbc.unicampania.it">https://www.dipdbc.unicampania.it</a>	
<b>Useful contacts</b>	
<b>Educational/scientific contact person</b>	Prof. Maria Caterina PACE e-mail: <a href="mailto:mariacaterina.pace@unicampania.it">mariacaterina.pace@unicampania.it</a>
<b>Administrative contact person:</b>	Dott.ssa Maria RUSCIANO e-mail: <a href="mailto:maria.rusciano@unicampania.it">maria.rusciano@unicampania.it</a>