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Ministero dell'Università
e della Ricerca



NOTICE OF COMPETITION FOR ADMISSION TO THE RESEARCH DOCTORATE COURSES

Additional grants - PON (National Offer Plan) "Research and Innovation" 2014-2020

"Doctorates and research contracts on innovation topics" CUP J19J21018780001

and "Doctorates on green topics" CUP J19J21018790001

(37th cycle academic year 2021-2022)

The Rector

Seeing the Ministerial Decree of April 30, 1999, no. 224 "Regulations on the subject of research doctorates";

Seeing law no. 240 of 30 December 2010 "Rules on the organization of universities, academic staff and recruitment, as well as delegation to the Government to encourage the quality and efficiency of the university system", in particular art. 19 "Provisions on research doctorates";

Seeing the Decree of the Minister of Education, University and Research no. 45 of 8 February 2013 "Regulation laying down procedures for accreditation of locations and doctoral courses and criteria for establishment of doctoral courses by accredited bodies";

Seeing the University Statute, issued with Rector's Decree no. 194 of 30 July 2012 and published in the Official Gazette of the Italian Republic - General Series - First Part, no. 200 of 28 August 2012, which entered into force on 27 September 2012; modified with Rector's Decree no. 179 of 18 September 2015, which was published in the Official Gazette of the Italian Republic no. 236 of 10 October 2015 and entered into force on 9 November 2015;

Seeing the adoption of the European Charter for Researchers and the Code of Conduct for their recruitment and adoption of the human resources strategy;

Seeing the Regulations of PhD courses and of the School of Advanced Studies, issued with Rector's Decree no. 202 of 4 July 2013;

Seeing MIUR (Ministry of Universities) protocol no. 3315 of 1 February 2019, concerning "Guidelines for accreditation of locations and doctoral courses";



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- Seeing** the University Guidelines and OTM-R (Open, Transparent and Merit-based Recruitment of Researchers) "UNICAM Policy", approved by the Academic Senate in session no. 28 of May 31, 2016;
- Having** acknowledged the results of the evaluation for accreditation by ANVUR on 4 June 2021, as published on the CINECA platform;
- Seeing** the Ministerial Decree of 10 August 2021, no. 1061 and the note of the Minister of University and Research, register of decrees 1061 of 10 August 2021, concerning allocation of the endowment of the PON "Research and Innovation" 2014-2020, with reference to Action IV.4 - " Doctorates and research contracts on innovation issues "and Action IV.5 - "Doctorates on green topics "in the context of the 37th cycle, by virtue of which the University of Camerino was awarded PhD grants for both topics;
- Having acknowledged** that the financial coverage of the awarded grants will be guaranteed until 31 December 2023 and that the grants must be awarded by the year 2021, in order to use the "Research and Innovation" PON 2014-2020 resources for at least two of the three years contemplated;
- Considering that** for the period after 31 December 2023 the scholarships will be financed with funds established in the sessions of the Academic Senate and the Board of Trustees no. 59 and no. 157 of 29 September 2021;
- Seeing** the Disposition of the Director of the School of Advanced Studies, protocol no. 66134 of 20 September 2021, which lists the proposals submitted for participation in the "Research and Innovation" PON 2014-2020;
- Seeing** the Disposition of the Director of the School of Advanced Studies, protocol no. 66570 of 22 September 2021, which corrects the proposals submitted for participation in the "Research and Innovation" PON 2014-2020;
- Seeing** the Disposition of the Director of the School of Advanced Studies, protocol no. 69455 of 30 September 2021, which excludes a project submitted after the deadline for sending the documentation;



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Seeing the resolutions of the Academic Senate (No. 59) and the Board of Trustees (no. 157), both in the session of September 29, 2021, which established the method of distribution of the scholarships and the projects to be financed;

Having recognized the need to proceed with the call for the selection procedure for the award of the aforementioned scholarships;

DECREES

Art. 1 – PURPOSE OF THE INITIATIVE AND PLACES TO BE COMPETED FOR

A competition is held for admission to the 37th cycle, academic year 2021-2022 and for the assignment of no. 17 additional research doctorate scholarships, reserved for the themes of the National Operational Program "Research and Innovation" 2014-2020, "Doctorates and research contracts on innovation themes" and "Doctorates on Green themes", to be allocated to the following specific measures :

- **no. 3 additional scholarships on innovation topics (Action IV.4).** The objective of the measure is to finance additional doctoral scholarships on innovation topics, i.e. doctoral courses focused on the themes of innovation, enabling technologies and the broader digital topic, such as interventions to enhance human capital in the world of research and innovation. **Reference topics:** digital innovation; process optimization; block-chain based applications for industry and public administration;

- **no. 14 additional grants on green topics (Action IV.5).** The objective of the measure is to finance additional PhD scholarships on topics oriented towards ecosystem conservation and biodiversity, as well as reducing the impacts of climate change and promoting sustainable development. **Reference topics:** data science and machine learning for renewable energy; biodiversity, climate change and economic sustainability; sustainable biosynthesis of molecules of common use; microplastics; biodiversity in the transition to circular cities and territories; urban regeneration and reconstruction of ecosystems functional to urban metabolism; development of innovative materials and analytical and synthetic methodologies with low environmental impact; development of innovative and green cosmetic materials; renewable energy and environmental



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sustainability; impact of the green economy and new sustainable development models on traditional legal categories.

The additional scholarships will be awarded as part of the projects listed and indicated in **Annex 1**, an integral and substantial part of this announcement and distinguished within the various PhD courses of the 37th cycle, academic year 2021-2022.

More details on the research topics activated are available in the table of "*projects*" published on the School of Advanced Studies website at the link <https://isas.unicam.it-2021-phd-call-applications-second-session>.

The Doctoral Courses of the 37th cycle must start no later than 31 December 2021 and conclude with the drafting of an original thesis, preferably in English. In addition to carrying out the activities directly aimed at preparing the thesis, those admitted to the courses are required to participate in training activities in English organized by the SAS (School of Advanced Studies) and in the courses held as part of the curricular pathway. Also contemplated are mobility experiences abroad, as listed in the table of "*projects*" published at the link <https://isas.unicam.it-2021-phd-call-applications-second-session> and to be carried out preferably in the first two years of the doctoral cycle (Ministerial Decree 10 August 2021, no. 1061).

Art. 2 – DOCTORAL SCHOLARSHIPS

The PhD scholarship has an annual duration and is renewed for each year of the course provided that the PhD student has completed the cycle of activities planned for the previous year and that he has been admitted to the following year by the Academic Board. The disbursement takes place for a maximum of three years.

Candidates positively included in the ranking will be awarded a scholarship, which can be maintained for the three-year period, subject to annual verification of the results obtained.

In compliance with the relevant national legislation, the monthly amount of the scholarship for the PhD student (including the total National Health Service quota) is €1,570.38 while, for each month spent abroad, the amount (including the total National Health Service



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quota) is €2,355.58. This amount is increased by 50% for a total period not exceeding 6 months for carrying out research activities abroad, if the student is authorized by the Teaching Body (Ministerial Decree 1061 of 10 August 2021).

Starting from the second year, each PhD student is guaranteed a fund for research activities in Italy and abroad equal to 10% of the scholarship amount.

For use of the scholarship it is necessary that the candidate have the status of unemployed person as per Law Decree no. 4-2019. From 30 March 2019, therefore, people who alternatively meet one of the following requirements have unemployment status:

- they do not carry out either a subordinate or self-employed work activity;
- they are workers whose gross income from dependent or self-employed work remains within the aforementioned thresholds: €8,145 per year for dependent work and € 4,800 per year for self-employment.

For the entire duration of the PhD course, it is forbidden to carry out permanent work services. The candidate, for the benefit of the scholarship, avails himself of the faculty of self-certification to refer to the tax period coinciding with the calendar year in which the scholarship is actually paid. This communication must reach the SAS offices no later than July 31 of each year. The university administration may carry out checks on the veracity of the aforementioned self-certifications.

In the event that the doctoral student loses his unemployed status during the course of the doctoral course, he or she loses the right to the scholarship, with the obligation to return the amount already received in the calendar year of reference.

The scholarships are disbursed in 36 deferred monthly installments, have an annual duration and are renewed on the condition that each student has completed the syllabus of activities planned for the previous year, according to the assessment made by the Teaching Body.

Anyone who, for at least one year, has benefited from a scholarship for a PhD course, cannot apply to benefit from it a second time.

The scholarships cannot be combined with other scholarships awarded for any reason, except with those granted by national or foreign institutions aimed at supporting stays abroad functional to the training or research activities of doctoral students.

Non-EU foreign doctoral students are guaranteed health care on a par with Italian and EU citizens, but enrollment in the National Health Service is mandatory and will be fully guaranteed by our University. Furthermore, students must comply with the rules relating to entry visas and make a request for the issue and annual renewal of a residence permit; the applicant is charged approximately €120 (one hundred and twenty euros).

Art. 3 – REQUIREMENTS FOR ADMISSION TO THE COMPETITION

Italian and foreign citizens can submit an application to participate in the competition, without discrimination based on gender, age, religion, nationality, sexual orientation, political opinions, socio-economic conditions and disabilities if, on the expiry date of the call, they are already in possession of at least one of the following qualifications:

- master's, single-cycle or specialist degree (new system)
- degree from the previous system (old system)
- similar academic qualification of the same level and recognized as suitable by the academic authorities pursuant to Law 148-2002.

Those who obtain the required qualification by 31 October 2021 can also submit an application to participate in the selection. In this case, admission to the selection will be granted "on condition" and candidates who are successful will have to prove possession of the qualification by means of a substitutive declaration of self-certification pursuant to art. 47 of Presidential Decree no. 445/00, within 5 days of attainment of the qualification, failing which they will be excluded.



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Without prejudice to the fact that the start of the cycle for doctoral students admitted under this announcement is expected to be by 31 December 2021, the qualification required for access to the courses must be obtained no later than 31 October 2021.

In the minutes of the Selection Committee the administration provides exclusion from the selection procedure due to lack of the prescribed requirements.

There is no payment of any contribution for admission to the selection.

Candidates who have obtained the qualification for access to the PhD abroad must submit the Declaration of Value issued by the Italian Embassy of the country in which the degree was issued or the Statement of Comparability and Verification of the qualification issued by Cimea. In the Declaration of Value it must be specified that the qualification that allows access to doctoral courses was obtained after 17 years of schooling and that it meets the academic requirements for access to third-cycle courses in the country of issue. An official translation into Italian of the diploma and of the Transcript of Records is also required, with exams taken and marks obtained, if not produced in English.

This documentation must be sent in advance by e-mail to postlaurea@unicam.it and presented in the original to formalize the registration, after arrival in Italy.

Candidates who require an entry visa to Italy, once they have received the official letter of admission to PhD courses, must submit an application for pre-enrollment through the portal University <https://www.universitaly.it/index.php/dashboard>.

Art. 4 – APPLICATION FOR PARTICIPATION IN THE COMPETITION

The application for participation in the selection must be completed **exclusively** (under penalty of exclusion from the selection/admission procedure) on the format accessible on the website <https://vele.unicam.it/CallforApplication> by **Thursday 4 November 2021**.

Candidates are asked to submit their application for participation in the competition online well in advance of the expiry date of this notice.



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It is the candidates' responsibility to verify the correct conclusion of the IT procedure.

Complaints will not be accepted due to any malfunctions of the computer system caused by overloads encountered by candidates near the deadline.

It is desirable that the candidate provide at least 3 names of lecturers/researchers (*presenters*) who will receive by e-mail a request to provide a cover letter, drawn up according to a predetermined model indicated in the e-mail itself.

Applications received after the deadline and with methods other than those indicated above will not be considered valid.

Candidates will pay particular attention to the compilation of the research cycle hypothesis written in English, since it will be one of the main elements for evaluation of research aptitude. The attention of candidates is also drawn to the need to indicate as a reference their scientific interests up to a maximum number of 2 "projects", among those listed in Annex 1.

Art. 5 – APPOINTMENT OF JUDGING COMMITTEES AND EVALUATION CRITERIA

Assessment of the suitability of candidates for admission to PhD courses is carried out by a Selection Board, appointed by the Rector with a decree, formed by the Director of SAS, who chairs it, and by the coordinators of each of the 6 Research Areas (or by their delegates) who will proceed to draw up a shortlist of suitable candidates.

On the basis of the documentation produced by the candidates, including the proposed research project, the Selection Board will carry out an evaluation in accordance with the provisions of the *European Framework for Research Careers* (<https://euraxess.ec.europa.eu/europe/career-development/training-researchers/research-profiles-descriptors>) for the R1 profile (*First stage researchers*), i.e.:

- ability to conduct original research under the guidance of supervisors;
- ambition to develop knowledge of research-related methodologies and disciplines;



- good knowledge of the research area in which they intend to carry out their thesis;
- ability to produce data under the guidance of supervisors;
- critical ability, and capacity for analysis, evaluation and synthesis of new and complex ideas;
- ability to illustrate research results and their meaning.

In evaluating the applications, with particular reference to the project proposal submitted by the candidates, the Selection Board will also take into account the following criteria, pursuant to Ministerial Decree 1061 of 10 August 2021, art. 3:

ADDITIONAL RESEARCH DOCTORAL SCHOLARSHIPS ON INNOVATION TOPICS (ACTION IV.4)	ADDITIONAL RESEARCH PHD SCHOLARSHIPS ON GREEN TOPICS (ACTION IV.5)
<p>a.a) Relevance of the doctoral research project in relation to the ability to create a high added value, in terms of scientific, social and economic repercussions on the national territory, favoring appropriate research models and the formation of professional profiles in response to the needs of innovation and competitiveness expressed by the entrepreneurial system, through promotion of research on innovation, digital and enabling technologies, supporting enhancement of human capital, as a determining factor for development of research and innovation in Italy</p>	<p>b.a) Relevance of the doctoral program in relation to the ability to create a high added value, through enhancement of human capital, in terms of scientific, social and economic repercussions on the national territory, favoring appropriate models of research and contamination of knowledge and skills capable of encouraging development of innovative products and services with a reduced impact on the environment, focused on issues oriented towards conservation of the ecosystem and biodiversity, as well as on reduction of the impacts of climate change and promotion of sustainable development, as a contribution to promoting green recovery and overcoming the effects of the crisis in the context of the COVID-19 pandemic</p>
<p>a.b) Conformity of the doctoral project with the SNSI (National Strategy for Intelligent Specialization) and the PNR (National Research Project), consistency with Law 240-2010 and Ministerial Decree 45-2013 regarding doctorates, with the aim of encouraging innovation and exchange between the world of research and the production world and qualification of the contribution</p>	<p>b.b) Conformity of the doctoral project with the SNSI and the PNR, consistency with Law 240-2010 and Ministerial Decree 45-2013 regarding doctorates, through funding of doctorates in the Green field</p>



of research projects in the innovation sectors (Law 240-2010, art.24, co. 3 and subsequent amendments)	
a.c) Measurability of the expected results and potential impact of the intervention with reference to the aims of REACT-EU (Recovery Assistance for Cohesion and the Territories of Europe): presence within the project of the doctoral program of quantifiable and measurable targets consistent with the indicators provided by the reference action of the PON.	b.c) Measurability of the expected results and potential impact of the intervention with reference to the aims of REACT-EU: presence within the project of the doctoral program of quantifiable and measurable targets consistent with the indicators provided by the reference action of the PON.

In preparing the shortlist of suitable candidates, the Selection Board will also take into account the candidate's CV, with particular reference to the graduation grade, other qualifications, scientific publications and presentations at conferences, prizes and awards.

The evaluation form used is published on the University website and on the SAS website at the link <https://isas.unicam.it/sites/isas.unicam.it/files/Evaluation%20form%202021.pdf>; the Board, on the basis of the criteria mentioned above, will assign a score from 0 to 4. Candidates who in the evaluation have achieved a score greater than or equal to 3 will be admitted to the next phase and to an interview.

At the end of the procedure, the Selection Board draws up the minutes of the tests and sends them to the office of the School of Advanced Studies for formation of the shortlist of suitable candidates based on the score obtained by each candidate.

The list of suitable candidates will be published on the Unicam institutional website and on the page <https://isas.unicam.it-2021-phd-call-applications-second-session>. No personal communications will be sent: the publication of the shortlist has the value of an official communication to the interested parties.

Suitable candidates, placed on the shortlist, will be invited to one or more interviews to produce the final ranking for each project. The interviews will preferably be conducted



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electronically in English by Commissions made up of at least 3 members appointed by the Teaching Body of each Doctoral Course and appointed by a Rector's Decree.

Failure to connect, even for technical problems not attributable to the University or due to force majeure, and unavailability of the candidate on the day set for the interview or lack of identification, are grounds for exclusion from the competition procedure.

The date of the interview will be communicated to candidates via e-mail, with a minimum notice of 5 days.

In this case too, for evaluation, reference will be made to the provisions of the European Framework for Research Careers for the R1 (First stage researchers) profile.

Art. 6 – CLASSIFICATION, ACCEPTANCE OF THE PLACE AND METHOD OF ENROLLMENT IN THE COURSES

Successful candidates will be admitted to the PhD courses according to the order of the ranking and up to the number of places announced with this announcement.

The final ranking will be published on the institutional website of the University and on the page <https://isas.unicam.it-2021-phd-call-applications-second-session>. Within 3 days of the end of the selections, suitable candidates will be notified of their admission; only if they make a request will excluded candidates be sent a brief judgment on their performance drawn up by the Selection Board.

In the event of equal scores, the candidate with a lower age of seniority prevails (Law no. 191 of June 16, 1998, art. 2, paragraph 9).

Candidates admitted to Doctoral Programs must send, within the peremptory deadline of 3 days from communication of admission to the courses, a declaration of acceptance of enrollment to postlaurea@unicam.it.

Once the competition tests have been completed, and after acceptance by the doctoral students, the Rector will approve the ranking formulated by the Selection Board, assigning the places and scholarships available.



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Applications for enrollment, addressed to the Rector of the University of Camerino, must be submitted, within the deadline, exclusively online through the appropriate section of the University website, where all the necessary information is published. In the application, which must be completed online within the indicated deadlines, the student must self-certify, in accordance with President of the Republic's Decree 445-2000, their personal details, residence, domicile, tax code, the veracity of the data contained in the copy of the identification document, attainment of the second degree education diploma, and absence of simultaneous enrollment in several university courses. In the enrollment applications, the student must also include a privacy declaration, a declaration for issue of a password enabling the use of IT services and a request for any benefits. During the enrollment process, the student must attach a copy of a valid identification document.

Enrollment is considered regularly closed, and therefore accepted, when the entire online procedure has been completed and all the required contributions have been paid and the required attachments have been inserted.

No delivery or shipment of paper material must be made.

Participants in the selection will have 30 days to submit any complaints to postlaurea@unicam.it. These will be sent to the University person responsible for prevention of corruption and for transparency who, in collaboration with the students' Ombudsman, will examine and respond to the issues submitted to him within 30 days of submission of the complaint.

Art. 7 – CONTRIBUTIONS FOR ACCESS TO AND ATTENDANCE OF DOCTORAL COURSES

The annual amount of contributions for access to PhD courses and for the relative attendance will be available in the Manifesto of Studies under the heading "University Contributions", which will be approved by the Academic Bodies and published on the institutional website of the University.



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Candidates admitted to the PhD program are required to pay the regional tax for the right to university study of €140 and the stamp duty of €16 paid in virtual form. Also exempt from paying the regional tax for the right to study doctoral students without a scholarship who are included in the right to study rankings of ERDIS (Regional Body for the Right to Study), which will subsequently be reimbursed, once the fulfillment of the required requisites has been verified.

The regularity of the contribution situation of doctoral students is an indispensable condition for access to UNICAM services and for maintaining their status.

Art. 8 – DUTIES OF PHD STUDENTS

Doctoral students have the status of university students.

Admission to the Doctorate involves an exclusive and full-time commitment to the performance of all study and research activities within the relevant structure in accordance with the provisions of the Doctoral Regulations and the procedures established by the Board of Lecturers. In particular, it is necessary to achieve 60 credits per year according to the criteria established by the SAS Council.

Pursuant to Ministerial Decree 1061 of 10 August 2021, the winners of additional scholarships of this "Research and Innovation" PON 2014-2020 call:

a) formally undertake to carry out the envisaged research periods (minimum 6 months, maximum 12 months) in the firm and abroad, at the same time certifying that they are aware that failure to comply with the minimum period in the firm will result in revocation and of the scholarship and the obligation to reimburse it;

b) are aware that the modification of the project objectives and of the expected results (if not previously authorized by the Ministry for the University) will lead to revocation of the scholarship and the total refund of any amounts already paid;

c) are aware that any negative opinion expressed by the Academic Board and consequent non-admission to the following year of the PhD program will result in revocation of the sums



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already paid for the current year and that failure to obtain the degree will result in revocation of the sums already paid for the last year of the course;

d) do not currently benefit from other scholarships awarded for any reason and undertake, for the entire duration of the additional scholarship, not to take advantage of other scholarships conferred for any reason, except for those admissible under the national legislation in force.

It should be noted that PhD students are obliged to respect:

- the Regulations for PhD courses and the School of Advanced Studies, issued with Rector's Decree no. 202 of 4 July 2013;
- the Code of Ethics and Conduct of the University of Camerino, issued with Rector's Decree no. 16 of February 3, 2015 and subsequently amended by resolution of the Board of Directors 93-2019 of June 26, 2019;
- all applicable rules and regulations of the University of Camerino, including those on student contributions.

Teaching activity does not involve any expense for the University and must not compromise the research training activity.

Enrollment in PhD Programs is incompatible with simultaneous enrollment in Bachelor's and Master's Degree Courses, first and second level university Masters courses, Specialization Schools, other one-year courses or PhD courses at another University. An exemption is possible in the event that, at the time of enrollment, the doctoral student only has to pass the final exam of another course, relating to the academic year preceding that of enrollment in the doctorate.

A public employee admitted to the PhD without the use of a scholarship is placed, on request, compatibly with the needs of the Administration to which he or she belongs, on extraordinary leave for study reasons, with the right to retention of economic, social security and retirement benefits enjoyed with the public administration with which the employment relationship is established, except for the possible repayment of the salaries received in the event



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of voluntary termination in the two years following attainment of the Doctorate (article 2 of the law 13 August 1984, no. 476, and subsequent amendments).

Art. 9 – ISSUING OF THE QUALIFICATION

The qualification of Doctor of Research, abbreviated with the words "*Dott. Ric.*" or "*PhD*", is issued by the Rector of the University of Camerino and possibly by the academic authorities of institutions with which there are co-protection agreements or joint qualifications, and is obtained upon passing the final exam.

To take the final exam, doctoral students must submit a copy of the doctoral thesis in electronic format to the SAS accompanied by the judgment of the external evaluators.

The thesis consists of a written dissertation or graphic work to which it is necessary to attach a report on the activities carried out in the entire Doctoral Course and on any publications.

The thesis is assessed by at least 2 highly qualified lecturers, preferably belonging to foreign institutions and in any case external to the subjects who contributed to issuing the doctoral degree, called external evaluators. The external evaluators express a written analytical judgment on the thesis and propose admission to the final exam or postponement for a period not exceeding 6 months if they consider significant additions or corrections necessary.

The Commissions for the final exam, appointed by the SAS Director on a proposal by the Board of Lecturers of the relevant Research Area, are made up of tenured university professors and researchers and teachers of disciplines related to the scientific and disciplinary sectors to which the course refers, mostly not belonging to the University of Camerino, usually with the presence of experts from foreign institutions.

Doctoral students admitted to the final exam will have to upload the doctoral thesis on a special platform for evaluation by the members of the Selection Board.

Suspension from the PhD Program is allowed for periods relating to the following cases:



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● pregnancy, maternity and paternity, according to the provisions of Legislative Decree 26 March 2001, no. 151 and subsequent amendments and by the Decree of the Ministry of Labor and Social Security of 12 July 2007;

- severe and prolonged illness;
- civilian service.

Doctoral students who benefit from a suspension period are obliged to recover the entire period after the end of the three years, with consequent disbursement of the suspended scholarship to the scholarship holders, as long as there do not exist, if the scholarship is paid by an external body, limitations to the extension of the scholarship itself beyond the three-year period.

The PhD student can also solely renounce the scholarship. In this case, while maintaining his or her student status, the PhD student loses all right to use it.

In the event of unjustified absence or non-fulfillment of the obligations, including failure to carry out the activities planned at the end of each year, the Teaching Body may propose exclusion of the PhD student from the course, with the consequent loss of the right to use the scholarship, where this is accorded.

Doctoral students benefit from insurance coverage for accidents and civil liability for the entire duration of the course, only for activities relating to the doctoral course.

In the event of an invention made by the doctoral student as part of university research, the University Regulations on patents will apply.

Art. 10 - PROCESSING OF PERSONAL DATA

The University, in implementation of the "Code regarding the protection of personal data" (Legislative Decree no. 196 of 30 June 2003 and subsequent amendments), of the "Consolidated law on privacy and the use of information systems" (Legislative Decree 271/2009 and subsequent amendments) and of the General Data Protection Regulation (EU Regulation 2016/679), as the body responsible for processing, undertakes to process the personal data and contacts provided



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by the candidate for completion of the selection procedures and for the pursuit of their own institutional purposes.

Participation in the competition implies expression of tacit consent for the names of the candidates and the results of the competition tests to be published on the UNICAM and SAS institutional website <http://isas.unicam.it>.

Art. 11 – REFERENCE RULES

For matters not covered by this announcement, reference is made to the regulations in force on the subject of research doctorates, in particular:

- Ministerial Decree 8 February 2013, no. 45
- Regulations on Research Doctorates of the University of Camerino issued with Rector's Decree 202 of 4 July 2013.

This call for applications is advertised on the MIUR website, on the institutional website of the University and on the SAS website.

The manager of the administrative procedure is the Administrative Teaching Manager of the SAS, Emanuela Caulini.

For information, interested parties can contact the SAS offices by sending an email to postlaurea@unicam.it.

THE RECTOR

Prof. Claudio Pettinari



Annex 1 - List of additional scholarships

INNOVATION TOPICS (ACTION IV.4)

Title of the research project	PhD course	Reference lecturer(s)
Quality Assurance for blockchain-based applications in industry and public administration	Computer Science and Mathematics	Andrea Polini
Anomaly Detection and optimization of industry/manufacturing process	Computer Science and Mathematics	Barbara Re
Innovation of the production chain for optimization of industrial processes towards the 4.0 Transition Plan. Innovative digital and technological solutions, with low environmental impact, in relation to the entire production cycle, processing waste, waste cycle, recovery of heat from industrial processes, efficiency and reduction of energy consumption in buildings	Architecture, Design, Planning	Giuseppe Losco

GREEN TOPICS (ACTION IV.5)

Title of the research project	PhD course	Reference lecturer(s)
Innovative methodologies for sustainable use and recycling of polymeric materials in the footwear industry	Chemical and Pharmaceutical Sciences and Biotechnology	Carlo Santini
Diversity: an energy efficient blockchain for	Computer Science and	Leonardo Mostarda



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Smart Energy Community	Mathematics	
Sustainable design of circular school furniture: from product to product-service	Architecture, Design, Planning	Lucia Pietroni
Development of materials and technologies for hydrogen fuel cells with applications in the mobility sector	Chemical and Pharmaceutical Sciences and Biotechnology	Francesco Nobili
REefPOWER	Physics, Earth and Materials Sciences	Maria Chiara Invernizzi
Innovative synthetic methodologies for sustainable production of bioactive molecules	Chemical and Pharmaceutical Sciences and Biotechnology	Alessandro Palmieri
Energy communities and forms of financing with social impact	Legal and Social Sciences	Lucia Ruggeri
Evaluation of the spectrum of action and insecticidal activity of formulations based on essential oils and new molecules, also mixed with known oils	Chemical and Pharmaceutical Sciences and Biotechnology	Filippo Maggi
Circular Economy and Green Technologies applied to recovery of the existing buildings and to new constructions	Architecture, Design, Planning	Maria Federica Ottone
Materials and methods for environmental applications	Chemical and Pharmaceutical Sciences and Biotechnology	Rita Giovannetti
Biodiversity, climate change, animal welfare, economic and environmental sustainability of semi-extensive mountain farms	Life and Health Sciences	Andrea Catorci, Gilberto Pambianchi, Paola Scocco



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Definition of risk maps of diseases transmitted by carrier arthropods in southern Europe, evaluating their ecology in relation to urban fragmentation, vegetation variability and animal diversity	Life and Health Sciences	Guido Favia
Mapping of microcosms associated with microplastics	Life and Health Sciences	Roberto Spurio/Dezemonna Petrelli
Recovery of metals present in waste from chemical, petrochemical and pharmaceutical industries	Physics, Earth and Materials Sciences	Gabriele Giuli