UNICALARELARU Decreti Rettorali 1124/2023 del 04/08/2023











Rector's Decree

Call for public supplementary selection for admission to PhD courses - XXXIX cycle - Academic Year 2023/2024, with awarding PhD fellowships funded also by the NextGenerationEU programme - National Recovery and Resilience Plan (PNRR), Ministerial Decree no° 117/2023.

The Rector

HAVING REGARD to the University Statute of Autonomy;

HAVING REGARD to the University General Regulations;

HAVING REGARD to the University Teaching Regulations;

HAVING REGARD to the University Administration and Accounting Regulations;

HAVING REGARD to the University PhD Regulations;

HAVING REGARD to the University Code of Ethics and University Code of Conduct;

HAVING REGARD to the Law no° 476 of 13th August 1984;

HAVING REGARD to the Law no° 240 of 30th December 2010, in particular art. 19;

HAVING REGARD to the Ministerial Decree no° 226 of 14 December 2021;

HAVING REGARD to the Law no° 104 of 5th February 1992, as supplemented and amended by the Law no° 17 of 28th January 1999;

HAVING REGARD to the Republic Presidential Decree no° 445 of 28th December 2000;

HAVING REGARD to the Law no° 148 of 11th July 2002;

HAVING REGARD to the Legislative Decree no° 196 of 30th June 2003;

HAVING REGARD to the Ministerial Decree no° 270 of 22nd October 2004;

HAVING REGARD to the General Data Protection Regulation (GDPR) - Regulation (EU) 2016/679 of the European Parliament and of the Council of 27th April 2016 relating to the protection of natural persons with regard to the processing of personal data and rules relating to the free movement of such data;

HAVING REGARD to the Ministerial Decree no° 247 of 23rd February 2022, which increased the gross annual amount of the PhD fellowship;

HAVING REGARD to the Rector's Decree no° 374 of 1st March 2022, which issued the "Fees, Contributions and Exemptions Regulations", updated for the academic year 2023/2024 by the University Board of Directors in date 28th February 2023;

HAVING REGARD to the provisions of the Italian Ministry of Universities and Research (MUR), concerning the Procedures for Entry, Residency and Enrolment of Foreign/International students in Higher Education Courses in Italy for the academic year 2023/2024, available at the link: https://www.studiare-in-italia.it/studentistranieri/;

HAVING REGARD to the Law no° 33 of 12th April 2022 relating to the Provisions concerning simultaneous enrolment in two courses of higher education;

HAVING REGARD to the National Recovery and Resilience Plan (PNRR) document;











WHEREAS the PNRR is part of the Next Generation EU (NGEU) economic recovery project, developing around three strategic axes shared at European level - Digitisation and Innovation, Ecological Transition, Social Inclusion - and along six Missions, including Mission 4 "Education and Research";

ESTABLISHED that the Mission 4, Component 2 "From Research to Enterprise" intends to strengthen research and foster the dissemination of innovative models for basic and applied research conducted in synergy between universities and businesses; supporting innovation and technology transfer processes; enhancing research infrastructure, capital and innovation support skills;

ESTABLISHED that Component 2 of Mission 4 provided four types of investment, including:

- "Strengthening of the research structures for the creation of "National R&D Champions" on some "Key Enabling Technologies" (National Centres);
- "Creation and strengthening of "Innovation Ecosystems", building "territorial R&D leaders" (Innovation Ecosystems);

HAVING REGARD to the Ministerial Decree no° 3138 of 16th December 2021 on the Public Notice for the Submission of Proposals for intervention for the Strengthening of research structures/facilities and the creation of "National R&D Champions" on some "Key Enabling Technologies" to be financed under the PNRR, Mission 4 Component 2 - Investment 1.4 - Strengthening research facilities and creation of "National R&D Champions" on some "Key Enabling Technologies" - funded by the European Union - NextGenerationEU (NC Notice);

WHEREAS the University participated in the NC Notice with the project "National Centre for HPC, Big Data and Quantum Computing " - HPC (Identification Code CN00000013), approved by the MUR with Concession Decree no° 1031 of 17th June 2022;

HAVING REGARD to the Ministerial Decree no° 3277 of 30th December 2021 on the Public Notice for the Submission of Proposals for action for the creation of 12 "Innovation Ecosystems" on the national territory to be financed under the PNRR, Mission 4 Component 2 - Investment 1.5 - Creation and strengthening of "Innovation Ecosystems", construction of "territorial R&D leaders" - funded by the European Union - NextGenerationEU (ECS Notice);

WHEREAS the University participated in the ECS Notice with the project "Technologies for climate change adaptation and quality of life improvement - Tech4You" (Identification Code ECS_00000009), approved by the MUR with Concession Decree no° 1049 of 23rd June 2022;

HAVING REGARD to the "Guidelines for reporting to the actors implementing the Mission 4 Component 2 system initiatives" and the "Guidelines for information and communication actions by the actuators";

HAVING REGARD to the CUP numbers generated by the University of Calabria for the aforementioned funding:

- HPC: H23C22000360005;
- Tech4You: H23C22000370006;

HAVING REGARD to the resolutions of the Board of Directors, held on 29th November 2022, 28th February 2023 and 30th May 2023, which authorised the call for proposals for PhD fellowships financed in the framework of the PNRR as indicated in the Annex A for each PhD course;

HAVING REGARD to the Ministerial Decree no° 117 of 2nd March 2023 awarding doctoral fellowships on the PNRR, Mission 4, Component 2, "From Research to Enterprise" - Investment 3.3 "Introduction of innovative doctorates that meet the needs of innovation companies and promote the recruitment of researchers from companies", by virtue of which the University of Calabria has been awarded co-funding for PhD fellowships;











HAVING REGARD to the note of MUR prot. no° 3992 of 2nd March 2023 on "Computerized procedure for the accreditation of PhD Courses - XXXIX cycle. Opening note";

HAVING REGARD to the "Guidelines for the accreditation of research doctorates pursuant to article 4, paragraph 3, of the regulation referred to in Ministerial Decree 14th December 2021, no° 226" issued with Ministerial Decree no° 301 of 22nd March 2022;

HAVING REGARD to the decisions of the Departments of reference of the University's PhD courses, concerning the approval of the renewal of courses for the academic year 2023/2024 - XXXIX cycle;

HAVING REGARD to the resolutions of the Academic Senate and the Board of Directors, held on 23rd and 30th May 2023 respectively, on the renewal and activation of PhD courses for the XXXIX cycle;

HAVING REGARD to the Rector's Decree no° 862 of 15th June 2023, with which has been issued and publified the "Call for public selection for admission to PhD courses - XXXIX cycle – Academic Year 2023/2024, with awarding PhD fellowships funded by the NextGenerationEU programme - National Recovery and Resilience Plan (PNRR)";

WHEREAS the results of the ANVUR examination of the proposals for the renewal of the PhD Couses for the XXXIX cycle;

HAVING REGARD the note of the decision of the Council of University Department DiBEST, meeting of 14th July 2023, approving the budgetary change to start activities related to the Community project under the LIFE programme "Restoration of aquatic ecosystems of protected areas from the Alps and Pyrenees - LIFE RESQUE ALPYR", LIFE20 NAT/ES/000369 - CUP H23C23000140002;

HAVING REGARD to the Rector's Decrees no° 1117 and no° 1118 of 3rd August 2023, with which the PhD fellowships referred to in Ministerial Decree no° 117 of 2nd March 2023 and also further supplementary PhD fellowships by external bodies or in the framework of projects were distributed among the University PhD Courses;

WHEREAS the measures financed by the above decrees must be:

- a) coherent with the objectives and objectives of Regulation (EU) 2021/241, with the general strategy and the Detail Sheet of the PNRR Component;
- b) aimed at the achievement of the results measured in relation to the milestones and targets that may be assigned to the Investment within the terms set by the Plan;
- c) in accordance with the principle "not causing significant damage" (DNSH) pursuant to article 17 of Regulation (EU) 2020/852, in line with the technical guidelines prepared by the European Commission (Communication of the European Commission 2021/C58/01);
- d) to address and bridge gender inequalities;
- e) in support of the participation of women and young people, also in line with the provisions of Decree-Law no° 77 of 31st May 2021 (c.d. Simplification Decree), as amended by conversion Law no° 108 of 29th July 2021, concerning the management of the PNRR;

HAVING REGARD to the letters of commitment and/or the agreements concluded or under contarct between the University of Calabria and the external bodies for the financing/co-financing of research PhD fellowship of the XXXIX cycle;

CONSIDERING that the actual allocation of the PhD fellowships referred to in Ministerial Decree no° 117/2023 is subject to the outcome of the required eligibility checks of the MUR and ANVUR;











ASCERTAINED the financial available resources under the above projects for the coverage of the PhD fellowships referred to this call;

ASCERTAINED the financial available resouces of the Departments concerned the financing of the research amount, equal to at least 10% of the cost of the PhD fellowship, intended to finance research activities for PhD candidates;

CONSIDERING necessary to provide for the issuing of the call for the supplementary selection notice for admission to PhD courses - XXXIX cycle - academic year 2023/2024 with administrative headquarters at the University of Calabria;

DECREES

Art. 1 Call for public selection for admission to PhD courses

- 1. The University of Calabria announces the call for suppletive public selection for admission to PhD courses for the academic year 2023/2024 XXXIX cycle and the award of n. 13 PhD fellowships. The PhD fellowships of this call for proposals are funded by the Ministerial Decree no° 117 of 2nd March 2023 and research projects in the framework of the National Recovery and Resilience Plan (PNRR) of the programme by the European Union NextGenerationEU, by external bodies and by the community programme LIFE, as specified in Annex A "Analytical Cards Doctoral Courses XXXIX cycle Academic Year 2023/2024" which is an integral and substantial part of this call.
- **2.** This call will be published on the website of the Ministry of Universities and Research, on the European website Euraxess and on the portal of the University of Calabria at the link: https://unical.portaleamministrazionetrasparente.it/pagina874_tc-7_PhD-Research.html and has the value of full notification.
- **3.** For each PhD course, the information related to the Coordinator, the duration, the proposing Department (any other Departments involved), the CUN Areas and the Disciplinary Scientific Areas of reference, the research topics or the curricula of the course, the requirements for participation, the procedures for admission, the titles to be attached to the application for participation, the criteria for evaluating the tests, the number of positions and PhD fellowships with details of the funders and the research objectives/themes, also in relation to the individual curricula, if any, the diary of the tests, the possible contact for information and the course website, are reported in Annex A.
- **4.** The positions financed by the funds of the Ministerial Decree no° 117/2023 are banished under condition of the approval of the ministerial financing. The doctoral PhD fellowships are activated within the framework of the subjects listed in the aforementioned decree and in compliance with the eligibility criteria set out in Ministerial Decree no° 117/2023.
- **5.** The activation of positions financed or co-financed by enterprises or external bodies is subject to the completion of the agreements by the date of the beginning of the PhD Courses.
- **6.** Any changes, updates or additions to the content of this call will be announced, exclusively, with the publication on the portal of the University of Calabria at the link https://unical.portaleamministrazionetrasparente.it/pagina874 tc-7 doctorate-di-ricerca.html.

Any personal communications to candidates relating to this notice will be made by e-mail. For this purpose, the e-mail address indicated by the candidate in the online application shall be used. The University assumes no responsibility for the dispersion of communications dependent on inaccurate indications of personal contact details by the candidate or by failure or late communication of their change, nor by electronic errors.

7. The submission of the application for participation through the procedure referred to in art. 4 presupposes the candidate's knowledge of the rules contained in this call, in the University's Regulations on











PhD and the Regulations on the source of funding under the National Recovery and Resilience Plan or the EU funded programme.

8. The start date of the PhD courses of the XXXIX cycle is set at 1st November 2023.

Art. 2 Admission Requirements

- 1. They can apply for participation in the selection of admission to the PhD courses referred to in the previous art. 1, without limitation as to age and/or nationality, persons who holds one of the following qualifications:
 - a. Diploma of Degree (ex ante Ministerial Decree 509/1999);
 - b. Master's Degree/Master's Degree (Ministerial Decree 509/1999 and Ministerial Decree 270/2004);
 - c. Second level academic qualification issued by the institutions belonging to the AFAM sector;
 - d. Degree obtained at foreign universities, legally recognized, provided that comparable duration, level and disciplinary field to the Italian qualification that allows access to the course.

Access to this call for selection of some of the PhD courses foresees the possession of specific master/specialist degrees (or equivalent), as indicated in the Annex A of this call.

- 2. Candidates who will achieve the title degree required in the paragraph 1 by the date of enrolment in the PhD course may also apply for participation in the admission notice. If the candidate is a PhD winner, he will be admitted "with reservation" and must submit, by the date of registration for the PhD course, by e-mail to dottorati@unical.it, the self-certification relating to the achievement of the title with attached copy of valid identity document. Failure to obtain the title within the indicated deadline will result in exclusion from the ranking list of merit.
- Candidates who:
 - previously have received a PhD fellowship or a fraction thereof;
 - have already obtained a PhD.

may not apply for participation in this call.

Art. 3 Qualification obtained abroad

- 1. The suitability of the qualification obtained at foreign universities is ascertained, only for the purposes of admission to this selection, by the Selection Boards in compliance with the legislation in force in Italy and in the country where the qualification was issued, and treaties or international agreements on the recognition of qualifications for further studies.
- 2. In this case, applicants must submit, in the manner indicated in Article 4 below, the degree certificate, indicating the examinations taken and the study plan followed, both first and second level. The candidate can also attach the diploma supplement or the declaration of value on site or certificate of comparability issued by CIMEA or other ENIC-NARIC centers and any other documentation useful to assess the eligibility of the title held for the chosen PhD course. These documents, if they are not written in Italian or English, must be accompanied by a sworn translation in Italian or English. The Selection Boards will assess the eligibility of the foreign qualification on the basis of the documentation submitted and therefore may exclude the candidate even if there is insufficient evidence for the evaluation.
- **3.** Candidates holding a foreign qualification are admitted to the selection with reservation, which can be dissolved only when, if winners, will produce the diploma supplement or declaration of value on site or certificate of comparability CIMEA or other ENIC-centers NARIC, as provided by art. 8.

Art. 4 Application for Admisssion

1. The application for selection must be submitted <u>using only</u> the appropriate online procedure available on the page: https://unical.esse3.cineca.it/.











- 2. The electronic procedure for the submission of the application for online admission will be closed at 12:00 a.m. (midday, Italian time) on 13th September 2023.
- **3.** The telematic procedure provides for preliminary registration for those who are not in possession of a student matriculation of the University of Calabria, in order to obtain credentials allowing access to the next step of filling in the application for admission to selection.
- **4.** Candidates who are already registered must access the Reserved Area using their existing credentials. Candidates are invited to update the data already present in the register, in particular the place of residence, the telephone number and the e-mail address, which will be delivered any communications related to the competition.
- **5.** The application for admission to the selection is deemed to have been correctly submitted only after the completion of the electronic procedure and can no longer be modified online.
- **6.** The date of submission of the application for admission to the selection shall be certified by the computerised system which, at the end of the deadline for submission, will no longer allow access to and submission of the application.
- **7.** There is no payment of an admission fee.
- 8. The online admission procedure requires the upload of the following documents in pdf format:
- self-certification (Self-Declaration Affidavit) of the right of access pursuant to art. 47 of Republic Presidential Decree 445/2000 (Annex B) exclusively for academic qualifications obtained in U.E countries;
- documentation required for the evaluation of candidates with an academic qualification obtained abroad (see art. 3);
- self-certification of exams taken during the academic career for candidates not yet in possession of the title qualificatreion;
- research project, of a maximum length of 16,000 characters (including spaces), unless otherwise required in the PhD course schedule to which the candidate intends to participate in, in compliance with the specifications set out in Annex A;
- the candidate's curriculum vitae et studiorum;
- a copy, front/back, of a valid identity document;
- a copy of the Italian tax code, exclusively for Italian candidates;
- any additional title qualification that are subject to evaluation, as specified in "Annex A" to this call.
- 9. All titles, documents and publications deemed useful for the purposes of the competition procedure must be attached in pdf format with a maximum size of 20 MB; exceptionally, any documentation that the candidate should not be able to attach can be sent by certified e-mail (PEC) to the address amministrazione@pec.unical.it or delivered by hand to the Protocol Office of the Central Administration, Via Pietro Bucci cubes 7-11 b, Arcavacata di Rende (CS), on weekdays from 10:00 to 12:00, always in compliance with the deadline of this notice. In addition, candidates who wish to supplement or amend the application or annexes may, in the same way, submit them, together with a signed application for admission and a photocopy of a valid identity document, within the mandatory deadline of expiry of the notice. If the annexes are not received by the deadline and in the manner indicated, only the documents entered by the computer procedure will be evaluated. The University assumes no responsibility for any telematic errors attributable to third parties.
- **10.** Applicants who wish to participate in more than one selection procedure for admission to the doctoral courses referred to in this call for proposals must submit a different application for each selection, each accompanied by the required qualifications.
- **11.** Applications for admission to selection made in a manner other than that described above will not be considered.











- **12.** It is the responsibility of the candidate to ensure the correct conclusion of the computer procedure; in this regard, this University declines any responsibility for any malfunctions of the computer system close to the deadline.
- 13. Candidates with proven disability, pursuant to Law no° 104/1992 as supplemented by Law no° 17/1999, may request, in relation to their disability, the necessary aids and any additional time for completing the test. Applicants with specific learning disabilities in accordance with Law No. 170/2010 in relation to the type of test shall be granted an additional time of 30 per cent more than that defined. Candidates with disabilities, if they intend to use the aids provided by Law no° 104/1992 as supplemented by Law no° 17/1999, must also report it during the online application, indicating the type of aid required.
- **14.** All candidates are admitted to the selection subject to verification of the requirements of the notice, which will be carried out pursuant to art. 43 of Republic Presidentia Decree no° 445/2000. The University may, therefore, at any time order the exclusion of candidates from the selective procedure. The University, for its own institutional reasons, can also verify the veracity of the substitute declarations of certification submitted by the candidates: anyone who makes false statements is punished in accordance with the penal code and special laws on the subject.
- **15.** The University reserves the right to adopt, even after the selection process, measures to exclude candidates who do not meet the requirements or who have not complied with the requirements of the call.

Art. 5 Selection boards

- 1. The Selection Boards for the admission to PhD courses shall be appointed by the Rector in accordance with the University PhD Regulations of the University of Calabria.
- 2. Each Selection Board shall be responsible for the entire evaluation procedure for applications, the preparation of the minutes, the formulation of the ranking lists and the award of PhD fellowships.
- 3. The composition of the individual Selection Board will be published on the portal of the University of Calabria at the link https://unical.portaleamministrazionetrasparente.it/pagina874_tc-7_doctorate-diricerca.html.

Art. 6 Admission tests

- 1. Admission takes place in accordance with the modalities specified for each course in Annex A, an integral part of this decree.
- 2. The diary of the admissions tests, set out for each course in Annex A, shall constitute notification to the persons concerned. Any changes or additions to the exam schedule will be published exclusively on the portal of the University of Calabria at the web addresses indicated in Annex A for each course.
- Failure to submit to the admission tests will be considered as a waiver of selection.
- 4. Candidates must show one of the following valid identification documents in order to take the competition tests: identity card, passport, car licence with photograph, firearms permit, identification card with a photograph and a stamp or other equivalent signature issued by a State Administration.
- 5. The selective procedure, aimed at verifying the candidate's aptitude for scientific research, consists of an evaluation of the candidates' qualifications, supplemented, in accordance with the provisions of each course in Annex A, by an oral test.
- 6. In each doctorate sheet are indicated the points available for each individual test, the award criteria and the minimum thresholds for admission to subsequent tests.
- 7. Each Selection Board shall, prior to the securities valuation operations, designate the Chairman and the Secretary of the Minutes and set the criteria for the evaluation and scoring of each individual item (research project, curriculum vitae et studiorum, any certifications, any publications, etc.). In the case of candidates not yet in possession of a PhD qualification, the Selection Board will have to take into account the self-











certified academic career at the time of the application in order to assess their educational background.

- 8. The oral test is public and includes the verification of knowledge of one or more foreign languages.
- 9. Applicants resident or domiciled abroad and all candidates who demonstrate, giving adequate reasons to the Selection Board, the impossibility to go in physical presence in the place and on the scheduled date for the oral test, to request the performance of the same electronically. In such cases, the candidate must make a request by sending a PEC (www.unical.it/pec) to the Department proposing the PhD course listed in the PhD schedule (Annex A), as well as to the e-mail address dottorati@unical.it as indicated in the PhD schedule. The application must be accompanied by a copy of a valid identification document. Applicants must ensure the use of a webcam to allow the Selection Board to identify themselves and must be available on the day and time set out in the test log in Annex A. It is up to each Selection Board to agree with applicants a precise time for the start of the interview. For the purposes of identification and otherwise excluded from the selective procedure, each candidate is required, before the interview begins, to identify themselves, presenting the same identity document already transmitted as an attachment to the e-mail and the online application. The lack of connection, the candidate's unavailability on the specified day or time or the failure to provide the submitted identification document constitute grounds for exclusion from the selective procedure. The University declines any responsibility for the possibility that technical reasons prevent the smooth conduct of the oral interview.
- 10. At the end of the evaluation, the Selection Board, on the basis of the score reported by each candidate, prepares the merit rankings. The Selection Board shall then allocate the awards, taking into account the position in the ranking list, the number of awards, the subject of the research project submitted by the candidate and/or the suitability of the candidate to develop the research topic of the PhD fellowships submitted.
- 12. According to the national legislation in force, each candidate may not receive more than one PhD fellowship at the same time.
- 13. For the assignment of the posts referred to in this call, in case of equal score in the general ranking of merit, the assessment of the economic situation (ISEE of the candidate) prevails.
- 14. The documents relating to the competition procedure are sent to the Rector by the Selection Board.
- 15. Candidates shall be granted access to the documentation of the insolvency proceedings, in accordance with current legislation.

Art. 7 Admission to PhD courses

- 1. The Rector approves the acts of the selections and decrees the ranking lists for the admission of candidates.
- 2. The ranking lists will be published on the portal of the University of Calabria at the link https://unical.portaleamministrazionetrasparente.it/pagina874 tc-7 dottorati-di-ricerca.html .
- 3. Candidates will therefore not receive any personal communication.
- 4. Candidates are admitted to the courses according to the rankings drawn up by each Selection Board until the places put in competition for each doctorate are exhausted. In the event of any waiver by those entitled before the start of the course, as many candidates will take over according to the order of the ranking drawn up by the Commission, always in compliance with the qualifications assigned. In the event of a useful placement in more than one ranking list, the candidate will have to exercise option for only one doctoral course.
- 5. This selection provides for the allocation only of places covered by PhD fellowship. Therefore, the renunciation of the PhD fellowship implies the renunciation of the doctoral course.











Art. 8 Registration procedures

- 1. The winners must register, through the procedure available at https://unical.esse3.cineca.it/, in the terms indicated at the same time as the publication of the Rector's Decree approving the acts of the selections. Failure to complete enrolment will result in forfeiture of the right to admission to the doctoral course.
- 2. The fee for attending doctoral courses, to be paid by all PhD students, includes the regional fee for the right to study, the stamp duty and the insurance premium pursuant to "Fees, contributions and exemptions regulations updated for the academic year 2023/2024", to which please refer.
- 3. The non-Community winners, after matriculation, must deliver to the PhD Sector of the Research, Innovation and Social Impact Area, within a reasonable period agreed with the Sector itself, a copy of the entry visa for study/university or residence permit.
- 4. Non-EU citizens applying for a visa must register on the Universitaly website https://www.universitaly.it/index.php/dashboard, under item "International students", to apply for an entry visa. Registration is only completed upon the issue of the entry visa for study in Italy, the exclusive competence of the Italian Diplomatic Representations abroad, regardless of the suitability acquired.
- 5. Applicants with a foreign qualification admitted to the course, if they have not submitted it during the admission phase, must submit to the PhD Sector of the Research, Innovation and Social Impact Area, within a reasonable time agreed with the Sector itself, penalty blocking of the career and subsequent forfeiture, the declaration of value on the spot of the qualification, issued by the Italian Diplomatic Representation of the country to which the title refers. As an alternative to the declaration of value on the spot, it is possible to present the supplement diploma in English, issued by the same institution that issued the qualification, drawn up according to the model developed by the European Commission, by the Council of Europe and UNESCO/CEPES, or the certificate of comparability of CIMEA or ENIC-NARIC centres. If the "Declaration of Value" submitted by the candidate proves that the qualification is not valid in the country of achievement for enrolment in a course similar to the Doctorate, the interested person loses his or her doctoral course.
- 5. In the event of the waiver of those entitled, the remaining vacancies are assigned to those who hold a useful position in the ranking list of merit, with convocation by e-mail, pursuant to art.6 of this notice.
- 6. The University reserves the right to carry out appropriate checks on the veracity of the content of the winner's declarations. If the content of the statements is not true, the winner will forfeit the benefits resulting from the measure issued on the basis of the false statement.

Art. 9 PhD fellowships

- 1. The amount of the PhD fellowship is € 16,243.00 per year gross of the social security contributions paid by the PhD fellowship holder. The PhD fellowship is exempt from the payment of local tax on personal income and income (IRPEF) and is subject to the payment of INPS social security contributions under separate management, two thirds to be borne by the University and one third by the PhD fellowship holder. The PhD students enjoy the protection and related rights. The PhD fellowship holders will have to enroll in the separate management INPS.
- 2. The limit of total gross annual personal income to be eligible for the PhD fellowship is € 15,000.00. The determination of such income shall include income of property origin and emoluments of any other nature, including those of an occasional nature. The income refers to the tax period for the calendar year of the greatest use of the PhD fellowship (for the academic year 2023/2024 the year 2024). Exceeding the income limit in one of the academic years in which the PhD fellowship is used leads to the loss of the right to PhD fellowship for the year in which the income event incompatible with the grant occurred. In this case there will be an obligation to return any monthly payments already received during the academic year.











- 3. The PhD fellowship is awarded in instalments on a monthly basis postponed, has an annual duration and is renewed annually for the duration of the course, provided that the PhD student has completed the activities foreseen in the previous year and has been admitted by the Board of Teachers the following year.
- 4. PhD fellowship may not be cumulated with research grants or other PhD fellowships for any title conferred, except with those awarded by national or foreign institutions useful for supplementing training or research activities with stays abroad.
- 5. The amount of the PhD fellowship is increased by 50 percent for periods of stay abroad at universities or research institutes previously authorized by the Teaching Board and supported by a certificate of the Host Institution, not less than 30 consecutive days and a total of not more than 12 months, extendable up to 18 months for doctorates in co-supervision of thesis with foreign universities and for those activated in associated form pursuant to article 3, paragraph 2 of Ministerial Decree. no° 226/2021. The PhD student is required to certify the effective stay abroad, otherwise they will be refunded. The surcharge may not be applied for stays spent in the country of origin or the country of residence of doctoral candidates.

Art. 10 Rights and duties of PhD students

- 1. Without prejudice to the rights and obligations provided for by the current University Regulations on Doctorates and the Ministerial Decree no° 226/2021, the acceptance of the PhD felloships financed by the PNRR implies the fulfilment of the obligations laid down in the relevant Ministerial Decrees.
- 2. Admission to the doctorate involves an exclusive and full-time commitment. Doctoral candidates are obliged to attend the doctoral courses with assiduity, to carry out all the study and research activities in the structures intended for this purpose and in accordance with the procedures established by the Teaching Board, to submit to the Faculty Board, at the end of each course year, an oral or written report on the activity and research carried out and to comply with anything else established by the College itself.
- 3. Each PhD student is guaranteed a budget for research activities in Italy and abroad of not less than 10% of the cost of the Ministerial PhD fellowship.
- 4. Recipients of PhD fellowships funded by Ministerial Decree no° 117/2023 shall comply with the following obligations:
- provide periods of study and research in the enterprise from a minimum of six (6) months to a maximum of eighteen (18) months, even if not continuous, over the three-year period;
- provide periods of study and research abroad, even if not continuous, from a minimum of six (6) months to the maximum limit provided for in art. 9, co. 3, of D. M. n. 226/2021, over the three-year period; The periods of study and research indicated in the two preceding paragraphs are distinct and must be carried
- 5. All other PhD students who have won this selection must carry out a compulsory period of study and research at public or private subjects abroad of at least ninety (90) days in the three-year period, previously authorized by the Faculty Committee.
- 6. The PhD students are required to read the University Regulations on Research Doctorates of the University of Calabria and to periodically consult the web portal, in particular the page https://www.unical.it/didattica/didattica/offerta-formativa/dottorati/.

Art. 11 Final examination and qualification

out in separate subjects.

The title of Doctor of Research ("Dr. Ric. or Ph.D.") is awarded by the Rector of the University of Calabria at the end of the course following public discussion, before a Commission appointed by the Rector himself, a research thesis that contributes to the advancement of knowledge or methodologies in the chosen field of research, as provided for by the PhD University Regulations.











Art. 12 Properties of results

- 1. Intellectual property rights on the possible results achieved by the PhD student, including, but not limited to, software, industrial inventions that can be patented or not, know-how, models, data and data collections, are regulated in accordance with current legislation, the University Regulations and according to what is established in the individual agreements with the University, Companies or Bodies involved.
- 2. The PhD student has the obligation to communicate without delay to the Coordinator the achievement of the results, committing himself not to disclose them and not to use them without the prior authorization of the University. In the event that the PhD student cooperates in research groups, he or she may be invited to sign a specific commitment to the recognition of intellectual property rights and confidentiality in relation to information, data and documents of a confidential nature that you should become aware of in carrying out your activities at and/or on behalf of the University.

Art. 13 Processing of personal data

- 1. Pursuant to the art. 13 of the General Data Protection Regulation (Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016), applicants are informed that the processing of personal data provided by them when participating in the selection or otherwise acquired for this purpose by the University of Calabria is aimed solely at the performance of the competitive activities and will be carried out by the persons responsible for insolvency proceedings, also by the Selection Board, at the University of Calabria, with the use of procedures including computerised, in the ways and within the limits necessary to pursue the aforementioned purposes, even in case of possible communication to third parties. The provision of such data is necessary to verify the requirements for participation and the possession of securities and their non-disclosure may preclude such verification.
- 2. The data collected by the University of Calabria, for the aforementioned purposes, will be processed through an automated database even after the conclusion of the selective procedure for the purposes related to the academic career management of the winners. They can also be used, in aggregate form and for statistical purposes, also by the MUR. The personal data provided by the candidates will be communicated to the administrative structures of the University of Calabria and to the Public Bodies directly interested in the legal and economic position of the winning candidates.
- 3. Candidates are granted the rights referred to in Arts. 15 and ss. of the aforementioned Regulation 2016/679, in particular, the right to access their personal data, to ask for their rectification, cancellation, limitation of processing, as well as to oppose their processing, by sending requests to the University of Calabria.

Data subjects who believe that the processing of personal data referred to them occurs in violation of the provisions of the Regulation have the right to lodge a complaint with the Guarantor for the protection of personal data, as provided by art. 77 of the same Regulation, or to appeal to the appropriate courts (art. 79 of the Regulation).

- 4. All documentation and information regarding the protection of personal data of the University of Calabria are available at the following link: https://www.unical.it/privacy/.
- 5. The data controller is the University of Calabria, via Pietro Bucci, 87036 Arcavacata di Rende (CS), tel. (+39) 0984 4911.
- 6. The contact details of the Data Protection Officer (RDP) are: via Pietro Bucci, Cube 7/11, 87036 Arcavacata di Rende (CS), tel. (+39) 0984 493918; email: rpd@unical.it.











Art. 14 Responsible for the proceedings

According to the Law of August 7, 1990, n. 241, the person responsible for the procedure of this call for proposals is the Head of the PhD Sector of the Research, Innovation and Social Impact Area - University of Calabria (e-mail: dottorati@unical.it).

Art. 15 Final rules

- 1. As far as not explicitly specified in this selection notice, the provisions provided for by current legislation on the subject, the University Regulations on PhD Programmes, the PNRR, as well as the relevant ministerial decrees of implementation, apply.
- 2. This call for proposals is translated into English, but in case of disputes the legal text will be in Italian.

The Rector Nicola Leone

Within this notice the terms relating to persons appear only in the masculine. They refer indiscriminately to women and men. Formulations respectful of gender identity have been renounced in order not to compromise the readability of the text and satisfy the need for its simplicity.

Pag. 12 di 25

Digitally signed document according to the Digital Administration Code and related rules.











ANNEX A Analytical Tables PhD Courses Cycle 39th - Academic Year 2023/2024

	Synthesis Available Positions						
No°	PhD Course	Coordinator	Available positions	Pages			
1	Civil and Industrial Engineering	Prof. Domenico Mundo	4 (four) positions with PhD fellowship of which: n. 2 positions granted by the D.M. 117/2023; n. 1 position financed by the ENEA; n. 1 position granted by project financed by the PNRR	14-16			
2	Life Science and Technology	Prof. Tommaso Angelone	4 (four) positions with PhD fellowship of which: n. 3 positions granted by the D.M. 117/2023; n. 1 position granted by projects financed by EU programme LIFE	17-20			
3	Science and Engineering of the Environment, Construction and Energy	Prof. Salvatore Critelli	3 (three) positions with PhD fellowship granted by the D.M. 117/2023	21-22			
4	Physical, Chemical and Materials Sciences and Technologies	Prof.ssa Gabriella Cipparrone	2 (two) positions with PhD fellowship of which: n. 1 position granted by project financed by the PNRR n. 1 position financed by the INFN	23-24			











PhD Course in "Civil and Industrial Engineering"

Prof. Domenico Mundo – Department of Mechanical Energy and Management Engineering – Via Pietro Bucci, Cubo 45C - Arcavacata di Rende (CS) – Tel.: 0984.494159 – e-mail: domenico.mundo@unical.it - SSD: ING-IND/13 Duration 3 years Main Department Department of Mechanical, Energy and Management Engineering Departments Department of Civil Engineering Department of Informatics, Modeling, Electronics and System Engineering Department of Environmental Engineering ICAR/01, ICAR/02, ICAR/04, ICAR/05, ICAR/07, ICAR/09, ICAR/10, ICAR/14 ICAR/17 ICAR/01, ICAR/02, ICAR/02, ICAR/04, ICAR/05, ICAR/07, ICAR/09, ICAR/10, ICAR/14 ICAR/17 ICAR/20, ICAR/22, ING-IND/08, ING-IND/09, ING-IND/10, ING-IND/11, ING-IND/13, ING-IND/14, ING-IND/15, ING-IND/16, ING-IND/17, ING-IND/22, ING-IND/24, ING-IND/35. Research Topics The PhD program aims to improve and develop skills and knowledge related to the involved curricula: Civil Engineering and Industrial Engineering — Master of Science (ex DM 270/204): LM-3 Landscaping, LM-4 Architecture and construction architecture archi
Main Department Department of Mechanical, Energy and Management Engineering Department of Civil Engineering Departments Involved Department of Informatics, Modeling, Electronics and System Engineering Department of Environmental Engineering ICAR/01, ICAR/02, ICAR/04, ICAR/05, ICAR/07, ICAR/09, ICAR/10, ICAR/14 ICAR/17 ICAR/20, ICAR/22, ING-IND/08, ING-IND/09, ING-IND/10, ING-IND/11, ING-IND/13 ING-IND/14, ING-IND/15, ING-IND/16, ING-IND/17, ING-IND/22, ING-IND/24, ING-IND/35. Research Topics The PhD program aims to improve and develop skills and knowledge related to the involved curricula: Civil Engineering and Industrial Engineering — Master of Science (ex DM 270/204): LM-3 Landscaping, LM-4 Architecture and conditions.
Other Departments Involved Department of Informatics, Modeling, Electronics and System Engineering Department of Environmental Engineering ICAR/01, ICAR/02, ICAR/04, ICAR/05, ICAR/07, ICAR/09, ICAR/10, ICAR/14 ICAR/17 ICAR/20, ICAR/22, ING-IND/08, ING-IND/09, ING-IND/10, ING-IND/11, ING-IND/13 ING-IND/14, ING-IND/15, ING-IND/16, ING-IND/17, ING-IND/22, ING-IND/24, ING-IND/35. Research Topics The PhD program aims to improve and develop skills and knowledge related to the involved curricula: Civil Engineering and Industrial Engineering — Master of Science (ex DM 270/204): LM-3 Landscaping, LM-4 Architecture and conditions.
Department of Informatics, Modeling, Electronics and System Engineering Department of Environmental Engineering ICAR/01, ICAR/02, ICAR/04, ICAR/05, ICAR/07, ICAR/09, ICAR/10, ICAR/14 ICAR/17 ICAR/20, ICAR/22, ING-IND/08, ING-IND/09, ING-IND/10, ING-IND/11, ING-IND/13 ING-IND/14, ING-IND/15, ING-IND/16, ING-IND/17, ING-IND/22, ING-IND/24, ING-IND/35. Research Topics The PhD program aims to improve and develop skills and knowledge related to the involved curricula: Civil Engineering and Industrial Engineering — Master of Science (ex DM 270/204): LM-3 Landscaping, LM-4 Architecture and conditions.
Involved Department of Environmental Engineering ICAR/01, ICAR/02, ICAR/04, ICAR/05, ICAR/07, ICAR/09, ICAR/10, ICAR/14 ICAR/17 ICAR/20, ICAR/22, ING-IND/08, ING-IND/09, ING-IND/10, ING-IND/11, ING-IND/13 ING-IND/14, ING-IND/15, ING-IND/16, ING-IND/17, ING-IND/22, ING-IND/24, ING-IND/35. Research Topics The PhD program aims to improve and develop skills and knowledge related to the involved curricula: Civil Engineering and Industrial Engineering — Master of Science (ex DM 270/204): LM-3 Landscaping, LM-4 Architecture and conditions.
Subject Areas ICAR/01, ICAR/02, ICAR/04, ICAR/05, ICAR/07, ICAR/09, ICAR/10, ICAR/14 ICAR/17 ICAR/20, ICAR/22, ING-IND/08, ING-IND/09, ING-IND/10, ING-IND/11, ING-IND/13 ING-IND/14, ING-IND/15, ING-IND/16, ING-IND/17, ING-IND/22, ING-IND/24, ING IND/35. The PhD program aims to improve and develop skills and knowledge related to the involved curricula: Civil Engineering and Industrial Engineering — Master of Science (ex DM 270/204): LM-3 Landscaping, LM-4 Architecture and con-
Subject Areas ICAR/20, ICAR/22, ING-IND/08, ING-IND/09, ING-IND/10, ING-IND/11, ING-IND/13 ING-IND/14, ING-IND/15, ING-IND/16, ING-IND/17, ING-IND/22, ING-IND/24, ING IND/35. Research Topics The PhD program aims to improve and develop skills and knowledge related to the involved curricula: Civil Engineering and Industrial Engineering — Master of Science (ex DM 270/204): LM-3 Landscaping, LM-4 Architecture and continuous c
involved curricula: Civil Engineering and Industrial Engineering — Master of Science (ex DM 270/204): LM-3 Landscaping, LM-4 Architecture and con
struction-architecture engineering, LM-4 c.u. Architecture and construction-architecture engineering (five years), LM-20 Aerospace and aeronautical engineering LM-21 Biomedical engineering, LM-22 Chemical engineering, LM-23 Civil Engineering, LM-25 Automation Engineering, LM-26 Safety Engineering, LM-28 Electrical Engineering, LM-30 Energy and Nuclear Engineering, LM-31 Management Engineering, LM-32 Computer engineering, LM-33 Mechanical Engineering, LM-35 Engineering for the Environment and Territory; LM-53 Science and Engineering of Materials – Master Degree (ex DM 509/1999): 3/S (Master in Landscaping), 4/S (Master in Architecture and construction-architecture engineering), 25/S (Master in Aerospace and aeronautical engineering), 26/S (Master in Biomedical engineering), 27/S (Master in Chemical engineering), 28/S (Master in Civil Engineering), 29/S (Master in Automation Engineering), 31/S (Master in Electrical Engineering), 33/S (Master in Engry and Nuclear Engineering), 34/S (Master in Management Engineering), 35/S (Computer Engineering), 36/S (Master in Mechanical Engineering), 38/S (Master in Engineering of Materials); — Diploma Degree (ante DM 509/1999) equivalent to the aforementioned Master of Science and Master Degrees according to DM 09/07/2009; — Graduate Degree or equivalent to one of the above-mentioned Titles awarded by foreign universities legally recognized.
Application Procedures Evaluation of qualifications and oral exam.
-Curriculum vitae et studiorum (CV) along with the Master Degree certificate con taining the exams taken and the associated scores; for the MSc students who are getting their degree, it is required to provide a certificate containing the exam taken and the associated scores; -Research project proposed by the candidate;
-Any publications related to the PhD themes;

87036 Rende (CS)











	-Any Master Research Fellowships & Grants related to the PhD themes.				
	Maximum Score 60/60				
	Evaluation of qualifica	itions	Maxim	num Score 30 points	
	Research Project		Maxim	num Score: 15 points	
	CV along with the Master Degree certificate containing the exams taken and the associated scores; for the MSc students who are getting their degree it is required to provide a certificate containing the exams taken and the associated scores			num Score: 9 points	
	Publications related to	the Ph D topics	Maxim	num Score: 3 points	
Assessment Criteria		owships & Grants related		num Score: 3 points	
Criteria	of the research project and the scientific and gained. In addition, the language will be assess	rocedures: ination is based on the discussion project proposed by the applicant cific and professional experiences tion, the knowledge of the English be assessed through the comment tion of a scientific article.		Maximum Score 30 points	
	points.	equired for decessing th	ic oral exa	in and for passing it is 21	
Positions and PhD fellowships	 4 (four) positions with PhD fellowship of which: n. 2 positions with PhD fellowship granted by the D.M. 117/2023, in particular: n. 1 PhD fellowship co-financed by the enterprise CENTRO RICERCHE FIAT STELLANTIS, topic: Decision support tool for electric vehicle battery disassembly process; n. 1 PhD fellowship co-financed by the enterprise TECHFEM s.p.a., topic: Upgrading of gas streams by membrane technology; n. 1 position financed by the ENEA (Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile); topic: Experimental study aimed at defining the main degradation phenomena of molten carbonate electrolysers and mitigation strategies; n. 1 position granted by project financed by the PNRR INNOVATION ECOSYSTEM - TECH4YOU, topic: Evaluation of innovation and sustainability for firms and academic entrepreneurial 				
	projects. Description	Date	Time	Room	
Agenda	Evaluation of Qualifications (applicant presence not required)	September 22, 2023		http://dici.unical.it/	
	Oral Exam	September 26, 2023	9:30 a.m. CEST	"Giannattasio" Room of the DInCi (cube 45B, floor "ponte superiore")	

87036 Rende (CS)











		University of Calabria, Arcavacata di Rende (CS), Italy	
	Examination results will be publishe	d on the PhD website at: http://dici.unical.it/	
Information	domenico.mundo@unical.it		
PhD Website	http://dici.unical.it/		











Phd Course in "Life Science and Techonology"

Coordinator	Prof. Tommaso Angelone - Dipartimento di Biologia, Ecologia e Scienze della Terra (DiBEST) - Via Pietro Bucci - Cubo 6/C, 87036 Arcavacata di Rende (CS) Tel.: +39 0984.492902 - e-mail: tommaso.angelone@unical.it - SSD: BIO/09				
Duration	3 years				
Main Department	Prof. Tommaso Angelone, Dipartimento di Biologia, Ecologia e Scienze della Terra (DiBEST), Via Pietro Bucci, Cubo 6/C, Tel.: +39 0984/492902, e-mail: tommaso.angelone@unical.it - SSD: BIO/09.				
Subject Areas	Area CUN 06: MED/04; Area CUN 08: ICAR/03; Area CUN 09: ING-IND/24				
Research Topics	This multidisciplinary Doctorate is focused on the following research topics. Experimental cardiology. Cell physiology. Signal transduction mechanisms. Biochemical and biomolecular aspects of membrane transport systems. Application of membrane transport systems to human health and drug design. Analysis of genetic and epigenetic variability in relation to human aging and forensic issues; biology, genetics and epigenetics of microorganisms and their relationship with the host. Biodiversity. Conservation and wildlife risk. Developmental biology. Neurobiology. Morfofunctional cell alteration in eucariothes. Adaptive biology in aquaculture. Behavioural ecology. Morpho-functional organ adaptations in the presence of environmental, physical and chemical stress. New molecular mechanisms in hormone-sensitive tumors progression. Cyto-physiology of apical meristems. Influence of secondary metabolites on cell function and structure. Environmental stress and parasites. Identification and characterization of genes involved in key metabolic processes. Comparative study of the mitochondrial genome and gene expression in plants. Epigenetic mechanisms and developmental processes in plants. Biosystematics of plants. Flora and vegetation of Calabria. Biodiversity and conservation of plant resources. Bio-indicators of the quality of inland waters. Cytophysiological and molecular analysis of marine phanerogams; ecological analysis and functioning of coastal marine ecosystems. New synthetic compounds and nutraceutical with pharmaceutical interest. Profiling, proteomics, lipidomics, and metabolomics of vegetable and animal matrices by MALDI-MS and MS/MS, and high-resolution NMR. Self-assembly of biocompatible multifunctional molecular nanoarchitectures for drug delivery and tissue repairing. Use of arthropods in the evaluation of environmental quality and in forensic investigations, parasitosis in humans and animals caused by some species of insects. Study of fossil organic matter, especially lipid biomarkers, in biogenic carbonates				

Pag. 17 di 25











	T
	water quality. Innovative systems for the optimization of the waste hierarchy and preventing the creation of waste. Development and characterization of new additives for asphalt industry to protect the health of workers and the environment. characterization and study of biomimetic membranes by physical chemical techniques. Bioinformatics analysis
	Italian Master's Degree (DM 270/04): LM-6 Biologia; LM-7 Biotecnologie Agrarie; LM-8
Participation Requirements	Biotecnologie Industriali; LM-9 Biotecnologie Mediche, Veterinarie e Farmaceutiche; LM-11 Scienze per la conservazione dei beni culturali; LM-13 Farmacia e farmacia industriale; LM-17 Fisica, LM-18 Informatica, LM-21 Ingegneria Biomedica; LM-22 Ingegneria Chimica; LM-23 Ingegneria civile, LM-30 Ingegneria energetica e nucleare, LM-31 Ingegneria gestionale, LM-32 Ingegneria informatica; LM-33 Ingegneria Meccanica; LM-35 Ingegneria per l'Ambiente ed il Territorio; LM-40 Matematica; LM-41 Medicina e Chirurgia; LM-42 Medicina Veterinaria; LM-44 Modellistica matematico-fisica per l'ingegneria, LM-53 Scienza e ingegneria dei materiali, LM-54 Scienze Chimiche; LM-60 Scienze della Natura; LM-61 Scienze della Nutrizione; LM-69 Scienze e tecnologie agrario; LM-70 Scienze e tecnologie per l'ambiente ed il territorio; LM-79 Scienze geofisiche; LM-75 Scienze e tecnologie per l'ambiente ed il territorio; LM-79 Scienze geofisiche; LM-82 Scienze statistiche; LM-86 Scienze zootecniche e tecnologie animali. - Italian Specialist Degree (ex DM 509/99): 3/S(specialistiche in architettura del paesaggio); 6/S (specialistiche in biologia); 7/S (specialistiche in biotecnologie mediche, veterinarie e farmaceutiche); 12/S (specialistiche in tonservazione e restauro del patrimonio storico-artistico), 14/S (specialistiche in farmacia e farmacia industriale), 20/S (specialistiche in ingegneria civile), 33/S (specialistiche in ingegneria chimica), 28/S (specialistiche in ingegneria coline), 33/S (specialistiche in ingegneria energetica e nucleare), 34/S (specialistiche in ingegneria per l'ambiente e il territorio), 45/S (specialistiche in medicina veterinaria), 50/S (specialistiche in modellistica matematico-fisica per l'ingegneria), 61/S (specialistiche in scienze e ingegneria dei materiali), 62/S (specialistiche in scienze della nutrizione umana), 74/S (specialistiche in scienze e gestione delle risorse rurali e forestali), 77/S (specialistiche in scienze e tecnologie agrarie), 78/S (specialistiche in scienze e tecnologie della chimica in
	The state of the s

- Research Project

- Curriculum Vitae et Studiorum (CV)

Procedures

Assessable

87036 Rende (CS)

qualification

- Any other qualifications (publications, participation in conferences).

The knowledge of the English Language will be assessed during the oral examination.











Evaluation of qualificationsTotal Maximum Score 30/30Research ProjectMaximum Score: 20Note: for the project use only the scheme present at the following link:Maximum Score: 5CVMaximum Score: 5Other qualifications: Publications,Maximum Score: 5						
Note: for the project use only the scheme present at the following link: CV Maximum Score: 5						
scheme present at the following link: CV Maximum Score: 5						
CV Maximum Score: 5						
Other qualifications: Publications, Maximum Score: 5						
Participation at scientific meetings						
Assessment Oral Examination						
criteria The oral examination will focus on						
the discussion of research project,						
curriculum vitae and other						
qualifications. Candidate's skills will Total Maximum Score: 30						
be evaluated to verify its abilities to						
carry out the proposed project.						
For foreign candidates there will be						
the possibility to be examined by						
using a skype connection						
·	Minimum Score required for the admission to the oral examination: 21 point.					
	4 (four) positions with PhD fellowship of which:					
- n. 3 positions with PhD fellowship granted by the D.M. 117/2023, in particular:						
n. 1 PhD fellowship co-financed by the enterprise O.P. AGRICOR SOCI	:TA'					
	COOPERATIVA, topic:					
Analysis of the root microbiota of Citrus clementina, Citrus reticula						
armeniaca and Punica granatum to identify the bacterial community capable	e or					
promoting root growth under water stress conditions (Subject Area: Botany);	1					
n. 1 PhD fellowship co-financed by the enterprise FLAG LA PERLA DEL TIRRENO s.c.a	.r.ı.,					
topic: Positions and Study of the reproductive cycle in fish species of commercial interest to adjust the						
PhD biological stop periods of fishing in the GSA19 (Subject Area: Zoology);						
fellowships • n. 1 PhD fellowship co-financed by the enterprise NEW HOSPITAL s.r.l., topic:						
Identification of tumor microenvironment factors as new therapeutic target	s in					
precision medicine (Subject Area: Pathology);	> 111					
- n. 1 position granted by project financed by the	FII					
programme LIFE "Restoration of aquatic ecosystems						
protected areas from the Alps and Pyrenees"; Refere						
LIFE20 NAT/ES/000369 Acronym: LIFE RESQUE ALPYR, topic:						
Cascading ecological effects of alien fish introduction and removal in high moun	tain					
Alpine lakes: conservation output of the project LIFE RESQUE ALPYR (Subject A						
Ecology).						
Description Date Time Room						
Evaluation of https://dibest.unical.i	t/di					
Qualification dattica/formazione-n						
Agenda (applicant September 26, 2023 laurea/dottorato-d						
presence not ricerca/dottorato-rice						
required) <u>life-science-</u>						











				technology/contents/new	
				s/list?category_name=av	
				<u>visi</u>	
				Room B6 (cube 4D, floor	
	Oral	September 27, 2023	9:00 a.m. CEST	1), DiBEST, University of	
	Examination	September 27, 2025	9.00 a.iii. CE31	Calabria, Arcavacata di	
				Rende (CS), Italy	
	The results of t	the tests will be publishe	ed at the web address:		
	https://dibest.	unical.it/didattica/form	azione-post-laurea/do	ttorato-di-	
	<u>ricerca/dottorato-ricerca-life-science-</u>				
	technology/contents/news/list?category_name=avvisi				
Information	Coordinator: Prof. Tommaso Angelone, Dipartimento di Biologia, Ecologia e Scienze				
	della Terra (DiBEST),				
	Tel.: +39 0984/492902, e-mail: tommaso.angelone@unical.it				
	E-mail of the secretary: DottoratoLifeScienceAndTech@unical.it				
Phd Website	https://www2.unical.it/portale/strutture/dipartimenti_240/dibest/ricerca/dottorati				
	<u>/lifescience/</u>				











PhD Course in "Science and Engineering of the Environment, Construction and Energy"

Coordinator	Prof. Salvatore Critelli - Department of Environmental Engineering (DiAM) – Via Pietro Bucci – Cubo 45A – Tel.: 0984/496760 – E-mail: salvatore.critelli@unical.it – SSD: GEO/02				
Duration	3 years				
Proposer Department	Department of Environmental Engineering - DIAM				
Other Department Involved	Dipartimento di Ingegneria Meccanica, Ene Dipartimento di Biologia, Ecologia e Scienza Dipartimento di Fisica Dipartimento di Ingegneria Civile (DInCi) Dipartimento di Chimica e Tecnologie Chim Dipartimento di Culture, Educazione e Soci	e della Terra (DiBEST)			
Scientific sectors	MAT/07, CHIM/06, CHIM/07, FIS/01, FIS GEO/06, GEO/07, GEO/08, GEO/09, ICAR/09,ICAR/20, ING-IND/22, ING-IND/27	GEO/10, ICAR/01, ICAR/02, ICAR/08,			
Research topics	The PhD program aims at developing skills physics, chemistry and mathematics, from computation industrial and information one, from computation particular, main topics are: • modelling and simulation of computation easuring equipment and sensors • resources and natural hazards, soil • evolution of geological processes at territory, architecture, and building energy, innovative materials and in	civil and environmental engineering to the lex systems to scientific communication. ex systems, for natural hazards, conservation and pollution, nd geology of natural resources, gs,			
Application Requirements	Master Degree (before the DM 509/1999) DM 270/2004); - Equivalent qualification, obtained from a				
Evaluation procedure	Assessment of academic publications and t During the oral exam, foreign language pro				
Evaluable academic publication and titles	pages, containing a brief state of the art, the description of the research object to be pursued during the PhD course, the main contributions and / or innovation				
	Maximum scor Assessment of the applicants	e of 60 points Maximum score 30 points			
Evaluation Criteria	publications and titles	•			
	Research Project CV	Maximum score 20 points Maximum score 5 points			











	Scientific and publications	technical r	eports,	Maximum score 5 points		
	Oral examination. S	Selection criter	ia: The			
	oral examination will focus on the content					
	of the candidate's project. The committee					
	·	•				
	will also evaluate the candidate's skills for the realization of the project and the Maximum score 30 poi					
	candidate's ration	Maximum score 30 points				
	research. The ca		octoral			
	demonstrate to ha					
		•	ivei oi			
	expertise in a foreign			Alexander and a series and a series and a		
		_	admitted to	the oral examination and positive oral		
D	examination is of 21	•	.1.*			
Positions and PhD				ed by the D.M. 117/2023, in particular:		
fellowships				prise SMS GROUP s.p.a., topic:		
				rnaces: application of next-genertion		
	FACTS to improve power quality, energetic and operational performances;					
	■ n. 1 PhD fellowship co-financed by the enterprise NEW DEVELOPMENTS s.r.l., topic:					
	Development of offshore green energy in the Mediterranean environment;					
	n. 1 PhD fellowship co-financed by the enterprise E3 SOCIETA' COOPERATIVA, topic:					
	Development and implementation of procedures and techniques for verifying					
	reliability of geological modelling within the context of the design and construction					
	of infrastructural works.					
	Description	Date		Room		
	Assessment of					
	documents and			https://diam.unical.it/didattica/for		
	publications	September		mazione-post-laurea/dottorato-di-		
	(the presence of	21, 2023		-		
	applicants is not			<u>ricerca_siace/</u>		
Agenda	required)					
				Seminar room of the Department		
	Oval avamaination	September	9:00 a.m.	of Environmental Engineering		
	Oral examination	26, 2023	CEST	(DIAm), Cube 45 A, ground floor,		
				University of Calabria (CS)		
The test results will be posted on the website						
	https://diam.unical.	it/didattica/for	mazione-po	ost-laurea/dottorato-di-ricerca_siace/		
Information	salvatore.critelli@ur	nical.it; tel.: +3	9 0984.4967	⁷ 60;		
	marinella.tedeschi@unical.it; tel.: +39 0984.496650.					
	https://diam.unical.it/didattica/formazione-post-laurea/dottorato-di-ricerca_siace/					
PhD Website	https://diam.unical.i	it/didattica/for	mazione-po	ost-laurea/dottorato-di-ricerca siace/		











PhD Course in "Physical, Chemical and Material Sciences and Technologies"

Coordinator	Prof.ssa Gabriella CIPPARRONE - Dipartimento di Fisica - Via Pietro Bucci			
Coordinator	- Cubo 33/B, Arcavacata di Rende (CS) Tel.: +39 0984.496115 - E-mail:			
	gabriella.cipparrone@fis.unical.it - SSD: FIS/03.			
Duration	3 years	D. 113/03.		
Duration	3 years			
Main Department	Department of Physics			
Subject Areas	FIS/01, FIS/02, FIS/03, FIS/05, FIS/	'06, FIS/07, CHIM/01, CHIM/02,		
	CHIM/03, ICAR/08			
Research Topics	The doctorate course includes two cu			
	1) "Physical sciences and technologies	-		
	concern the following research to			
	geophysics, condensed matter physic			
	complex systems, and of the continu			
		experimental, theoretical and		
	computational aspects.	ad tachnalogies". The activities of		
	2) "Advanced materials: chemistry and this area mainly concern the follow			
	technology of advanced materials and	-		
	etc), polymeric, composite, multifunc			
		-		
	etc. Conceiving the study of materials in terms of structure and properties, design, production processes, characterization and use, with			
	the aim of developing materials and			
	accumulation of energy, technologies for cultural heritage protection ,			
	photonics, sensors, health, anti-counterfeiting and security.			
Participation	Italian University Degree (ante DM 509/1999) or Italian/Master's Degree			
Requirements	(ante DM 509/1999 and DM 270/2004) or equivalent Degree obtained			
	abroad.			
Procedures for the	Evaluation of Qualifications and oral e	examination.		
admission	The knowledge of English.			
Assessable qualification	- Curriculum vitae with details of any previous research experience;			
	- Master Degree with the details of m	ark, duration and exams;		
	- Research project;			
	- List of published scientific articles (e	•		
	Total Maximum	Score 60/60		
	Qualification			
	Research project CV and any previous research	Maximum score 30 points		
	CV and any previous research experience	iviaximum score so points		
Assessment criteria	Eventual published articles			
ASSESSIFICITE CITECITA	Oral examination			
	English presentation of the			
	candidate research project and eventual discussion on papers Maximum score 30 points			
	published by the candidate.			
	published by the calluldate.			











Phositions and fellowship and fellow				^	Ainimaa aaawa ta waaa	h +la a a a a :+:			
- n. 1 position granted by the PNRR project HPC in the framework of PNRR National R&D Champions on some "Key Enabling Technologies" (National Centres), topic: Development and enhancement, within the ReCaS Data Centre of Cosenza, of computational strategies and porting of applications on GPU/FPGA and heterogeneous architectures for experimental elementary particle physics; - n. 1 position granted by the INFN, topic: Physics of Fundamental Interactions. Description Date Time Room					Minimum score to reach the position: 21 pt				
PNRR National R&D Champions on some "Key Enabling Technologies" (National Centres), topic: Development and enhancement, within the ReCaS Data Centre of Cosenza, of computational strategies and porting of applications on GPU/FPGA and heterogeneous architectures for experimental elementary particle physics; - n. 1 position granted by the INFN, topic: Physics of Fundamental Interactions. Description Date Time Room		and	PhD						
(National Centres), topic: Development and enhancement, within the ReCaS Data Centre of Cosenza, of computational strategies and porting of applications on GPU/FPGA and heterogeneous architectures for experimental elementary particle physics; - n. 1 position granted by the INFN, topic: Physics of Fundamental Interactions. Description Date Time Room	fellowship	fellowship		•	•				
Agenda Development and enhancement, within the ReCaS Data Centre of Cosenza, of computational strategies and porting of applications on GPU/FPGA and heterogeneous architectures for experimental elementary particle physics; - n. 1 position granted by the INFN, topic: Physics of Fundamental Interactions. Description Date Time Room Qualification assessment (presence of September 22, https://fisica.unical.it /contents/news/list Not requested) Seminars Hall of Physics Department of University of Calabria - Arcavacata di Rende (CS). The test results will be published on the PhD website at: https://fisica.unical.it/contents/news/list Information Dott.ssa Chiara Perri @984/494006 e-mail: chiara.perri@fis.unical.it/ PhD Website https://fisica.unical.it/didattica/formazione-post-laurea/dottorato-di-				•	ome "Key	Enabling Technologies"			
Cosenza, of computational strategies and porting of applications on GPU/FPGA and heterogeneous architectures for experimental elementary particle physics; - n. 1 position granted by the INFN, topic: Physics of Fundamental Interactions. Description Date Time Room				, ,					
Agenda GPU/FPGA and heterogeneous architectures for experimental elementary particle physics; - n. 1 position granted by the INFN, topic: Physics of Fundamental Interactions. Description Date Time Room Qualification assessment (presence of September 22, candidates 2023 /contents/news/list not requested) Agenda Oral September 25, examination 2023 Seminars Hall of Physics Department of University of CEST Calabria - Arcavacata di Rende (CS). The test results will be published on the PhD website at: https://fisica.unical.it/contents/news/list Information Dott.ssa Chiara Perri 0984/494006 e-mail: chiara.perri@fis.unical.it/didattica/formazione-post-laurea/dottorato-di-			·						
elementary particle physics; - n. 1 position granted by the INFN, topic: Physics of Fundamental Interactions. Description Date Time Room				•	•	•			
- n. 1 position granted by the INFN, topic: Physics of Fundamental Interactions. Description Date Time Room				-	•	architectur	es for experimental		
Physics of Fundamental Interactions. Description Date Time Room				, · ·					
Agenda Description Date Time Room					•	pic:			
Agenda Qualification assessment (presence of September 22, candidates 2023 /contents/news/list not requested) Oral September 25, a.m. of University of CEST Calabria - Arcavacata di Rende (CS). The test results will be published on the PhD website at: https://fisica.unical.it/contents/news/list Information Dott.ssa Chiara Perri 0984/494006 e-mail: chiara.perri@fis.unical.it/ PhD Website Nttps://fisica.unical.it/didattica/formazione-post-laurea/dottorato-di-									
Agenda Agenda					Date	Time	Room		
Agenda (presence of September 22, candidates 2023 /contents/news/list not requested) Oral September 25, examination 2023 Seminars Hall of Physics Department of University of CEST Calabria - Arcavacata di Rende (CS). The test results will be published on the PhD website at: https://fisica.unical.it/contents/news/list Information Dott.ssa Chiara Perri 0984/494006 e-mail: chiara.perri@fis.unical.it PhD Website https://fisica.unical.it/didattica/formazione-post-laurea/dottorato-di-				,					
Agenda Agenda Candidates not requested) Oral September 25, examination 2023 September 25, a.m. of University of CEST Calabria - Arcavacata di Rende (CS). The test results will be published on the PhD website at: https://fisica.unical.it/contents/news/list Information Dott.ssa Chiara Perri 0984/494006 e-mail: chiara.perri@fis.unical.it PhD Website //contents/news/list Seminars Hall of Physics Department of University of CEST Calabria - Arcavacata di Rende (CS). The test results will be published on the PhD website at: https://fisica.unical.it/contents/news/list Information Dott.ssa Chiara Perri 0984/494006 e-mail: chiara.perri@fis.unical.it/didattica/formazione-post-laurea/dottorato-di-							110		
Agenda Agenda Oral September 25, examination 2023 The test results will be published on the PhD website at : https://fisica.unical.it/contents/news/list Information Dott.ssa Chiara Perri @fis.unical.it PhD Website Not requested) Seminars Hall of Physics Department a.m. of University of CEST Calabria - Arcavacata di Rende (CS). The test results will be published on the PhD website at : https://fisica.unical.it/contents/news/list PhD Website Ntps://fisica.unical.it/didattica/formazione-post-laurea/dottorato-di-				**	•				
Agenda Prequested) Oral September 25, 2023 Examination September 25, a.m. of University of CEST Calabria - Arcavacata di Rende (CS). The test results will be published on the PhD website at : https://fisica.unical.it/contents/news/list Information Dott.ssa Chiara Perri @984/494006 e-mail: chiara.perri@fis.unical.it PhD Website PhD Website					2023		/contents/news/list		
Oral September 25, a.m. of University of CEST Calabria - Arcavacata di Rende (CS). The test results will be published on the PhD website at: https://fisica.unical.it/contents/news/list Information Dott.ssa Chiara Perri 0984/494006 e-mail: chiara.perri@fis.unical.it PhD Website September 25, 2000 Physics Department of University of Calabria - Arcavacata di Rende (CS). The test results will be published on the PhD website at: https://fisica.unical.it/contents/news/list									
Oral examination September 25, 2023 September 25, a.m. of University of CEST Calabria - Arcavacata di Rende (CS). The test results will be published on the PhD website at : https://fisica.unical.it/contents/news/list Information Dott.ssa Chiara Perri 0984/494006 e-mail: chiara.perri@fis.unical.it PhD Website PhD Website	Agenda			requestea)			Causinana Hall of		
examination 2023 a.m. of University of Calabria - Arcavacata di Rende (CS). The test results will be published on the PhD website at: https://fisica.unical.it/contents/news/list Information Dott.ssa Chiara Perri 0984/494006 e-mail: chiara.perri@fis.unical.it PhD Website https://fisica.unical.it/didattica/formazione-post-laurea/dottorato-di-						0.00			
CEST Calabria - Arcavacata di Rende (CS).				Oral	September 25,		•		
di Rende (CS). The test results will be published on the PhD website at : https://fisica.unical.it/contents/news/list Information Dott.ssa Chiara Perri 0984/494006 e-mail: chiara.perri@fis.unical.it PhD Website https://fisica.unical.it/didattica/formazione-post-laurea/dottorato-di-				examination	2023	•			
The test results will be published on the PhD website at : https://fisica.unical.it/contents/news/list Information Dott.ssa Chiara Perri 0984/494006 e-mail: chiara.perri@fis.unical.it PhD Website https://fisica.unical.it/didattica/formazione-post-laurea/dottorato-di-						CL31			
https://fisica.unical.it/contents/news/list Information Dott.ssa Chiara Perri 0984/494006 e-mail: chiara.perri@fis.unical.it PhD Website https://fisica.unical.it/didattica/formazione-post-laurea/dottorato-di-		+		The test resu	lts will be publishe	ed on the	, ,		
Information Dott.ssa Chiara Perri 0984/494006 e-mail: chiara.perri@fis.unical.it PhD Website https://fisica.unical.it/didattica/formazione-post-laurea/dottorato-di-			'						
e-mail: chiara.perri@fis.unical.it PhD Website https://fisica.unical.it/didattica/formazione-post-laurea/dottorato-di-						· iist			
PhD Website https://fisica.unical.it/didattica/formazione-post-laurea/dottorato-di-	Jilliacion			·					
					-laurea/dottorato-di-				
IICEICA/	Website			ricerca/					











ANNEX B Self-Declaration Affidavit (Art. 47 D.P.R. 28th December 2000, no° 445)

*The	unde	ersigned_					Fiscal	Code:
					Place of birth			Date of
birth _		9	Sex M/F	Residence	e (city)			prov
	_ via				n	cap		
accord 445/2 pursu gradu	ding to art. 76 000, and on i ant to art. 2	of the D ts own r of the se de, Unive	D.P.R. 28 De esponsibilit election no	ecember 2000 cy: Hereby dec tice: <i>(Please i</i>	, n. 445, pursua clare To be in p indicate precise	are subject to the ant to and for the cossession of the ely: exact name of and for candidate	e purposes following of the cou	s of D.P.R. n. g access title urse, date of
Degre	e							achieved
on				wi	th vote			at
List	O	f	exa	ms	and	grades		(possible)
Α	сору	of	the	following	identity	document	is	attached:
196 or that to proce *This states, proof of as self- or certion or certion or certion or certion or certion or certion or certion	f 2003 and Re he personal of dure for which catement may re personal qualitie f any qualification certification. For ficates of study of copy. Lastly, a co- subscribing to the ee. If this declar	gulation data colle this decentaries and facts	(EU) 2016/ ected will laration is es, personal of relating to of ifications, exa ttached (eg di qualifications, lidation documentioned state int or filed dir subscriber maralid.	defaulties or facts the subjects of winder subjects of windinations, profesocuments issued etc.) must in the ment must be datiments is not subjectly by a persorust also be produced.	copean Parliame also by composite that are directly activities he or she has assional qualification by a public authorisame declaration ed, signed and attactive to authenticate other than the care	the purposes of ent and of the Couter, exclusively equainted with the per direct knowledge. The period of the couter of the country of the co	erson concernis statementations, copies ey are in connection the person copy, from	27 April 2016 ontext of the rned, as well as nt must provide the application, s of parchments informity to the presence of the t and rear, of a
riace	and date,				Do	ماطنعم الرييط لعصيماء		.1
						clared by (Legible	signature	:)