

**Rector's Decree**

Public call for evidence supplementary selection for admission to doctoral programmes - XXXVIII cycle - A. A. 2022/2023 with the attribution of doctoral scholarships referred to NextGenerationEU as part of the National Recovery and Resilience Plan (PNRR).

THE RECTOR

HAVING REGARD to the Statute of Autonomy of the University of Calabria;

HAVING REGARD to the General Regulations of the University;

HAVING REGARD to the Teaching Regulations of the University;

HAVING REGARD to the Regulations for Administration and Accounting;

HAVING REGARD to the University Regulations on the PhD Programme of the University of Calabria;

HAVING REGARD to Law No. 476 of 13 August 1984 on Scholarships and Doctorates in Universities;

HAVING REGARD to Law No. 240 of 30 December 2010, in particular Art. 19;

HAVING REGARD to Ministerial Decree No. 226 of 14 December 2021, which issued the "Regulation laying down procedures for the accreditation of doctoral establishments and courses and criteria for the establishment of doctoral courses by accredited organs";

HAVING REGARD TO Law No. 104 of 5 February 1992 as supplemented and amended by Law No. 17 of 28 January 1999 laying down rules on "Assistance, Social Integration and Rights of Persons with Disabilities";

HAVING REGARD to the Decree of the President of the Republic n. 445, 28 December 2000 "Consolidated text of laws and regulations concerning administrative documentation";

HAVING REGARD to Law No. 148 of 11 July 2002 "Ratification and implementation of the Convention on the Recognition of Qualifications in Higher Education in the European Region, done at Lisbon on 11 April 1997, and rules for the adaptation of the national legal system" and in particular, art. 2, which empowers universities to recognise the entry qualification for obtaining a Ph.D.;

HAVING REGARD to D. Lgs. n. 196 of 30 June 2003 "Code regarding the protection of personal data";

HAVING REGARD to Ministerial Decree no. 270 of 22 October 2004 "Amendments to the Regulations concerning the teaching autonomy of universities, approved by Decree of the Ministry of University and Scientific and Technological Research no. 509 of 3 November 1999";

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

HAVING REGARD to Ministerial Decree No. 247 of 23 February 2022, which increased the gross annual amount of the PhD scholarship;

HAVING REGARD to Rector's Decree No. 374 of 1 March 2022 of 1 March 2022 by which the "Regulations for fees, contributions and exemption 2022/2023" was issued;

HAVING REGARD to the provisions of the MUR concerning the Procedures for Entry, Residence and Registration of Foreign/International Students at Higher Education Courses in Italy for a.a. 2022/2023 available at the link: <https://www.studiare-in-italia.it/studentistranieri/>;



HAVING REGARD to Law No. 33 of 12 April 2022 on "Provisions concerning simultaneous enrolment in two courses of higher education";

HAVING REGARD to the deliberations of the Academic Senate and the Board of Directors, meetings of 11 May 2022 on the establishment and activation of PhD courses in the XXXVIII cycle;

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

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

ESTABLISHED that within Mission 4, Component 2 "from research to enterprise" aims 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 included four types of investments:

- Strengthening research structures for the creation of "national R&D champions" on some "Key Enabling Technologies" (National Centres);
- "Creating and strengthening" "innovation ecosystems", building "territorial R&D leaders" (Innovation Ecosystems);
- "Fund for the implementation of an integrated system of research and innovation infrastructures" (Research Infrastructures and Technological Innovation Infrastructures);
- "Partnerships extended to universities, research centres, companies to finance basic research projects" (Extended Partnerships);

HAVING REGARD to D.M. No. 3138 of 16 December 2021 on the Public Notice for the Submission of Proposals for Intervention for the Strengthening of Research Facilities and the Creation of "National Champions" R&D on some Key Enabling Technologies to be financed under the National Recovery and Resilience Plan, Mission 4 Component 2 Investment 1.4 - Strengthening research facilities and creation of "national R&D samples" on some Key Enabling Technologies - funded by the European Union - NextGenerationEU (CN Notice);

WHEREAS the University took part in the Notice CN - National Samples: National Centre for HPC, Big Data and Quantum Computing (Identification Code CN00000013) approved by the MUR with Concession Decree No. 1031 of 17 June 2022;

HAVING REGARD to D.M. No. 3277 of 30 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 National Recovery and Resilience Plan, 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 - Innovation Ecosystems Notice: Technologies for climate change adaptation and quality of life improvement - Tech4You (ECS_00000009 identification code) approved by the MUR with Concession Decree No. 1049 of 23/06/2022;

HAVING REGARD to D.M. No. 341 of 15/03/2022 on the Public Notice for the Submission of Proposals for Action for the Creation of "Partnerships extended to universities, research centres, companies for the financing of basic research projects" - as part of the National Recovery and Resilience Plan; Mission 4



"Education and research" - Component 2 "From research to enterprise" - Investment 1.3, financed by the European Union - NextGenerationEU (EP Notice);

CONSIDERING that the University participated in the Notice PE - Partenariati Estesi: Italian Ageing Society - AGE-IT (identification code PE0000015) approved by the MUR with Concession Decree no. 1557 of 11/10/2022;

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

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

- H23C22000360005 (National Centre for HPC, Big Data and Quantum Computing);
- H23C22000370006 (Technologies for climate change adaptation and quality of life improvement - Tech4You);
- H23C22000870006 (Italian Ageing Society – AGE-IT);

HAVING REGARD to the resolution of the Board of Directors, meeting of 29 November 2022, which authorised the issuance of this call for selection for the award of doctoral scholarships under the National Recovery and Resilience Plan:

Project Name	Referring	PhD afferent
CN notice		
HPC, Big data e Quantum Computing	Alberto Di Renzo	Civil and Industrial Engineering
HPC, Big data e Quantum Computing	Antonello Sindona	Physical, Chemical and Materials Sciences and Technologies
HPC, Big data e Quantum Computing	Francesco Gagliardi	Civil and Industrial Engineering
HPC, Big data e Quantum Computing	Antonio Padovano	Civil and Industrial Engineering
HPC, Big data e Quantum Computing	Alessandro Papa	Physical, Chemical and Materials Sciences and Technologies
HPC, Big data e Quantum Computing	Leonardo Primavera	Physical, Chemical and Materials Sciences and Technologies
ECS notice		
Tech4You	Giuseppe Mendicino	Civil and Industrial Engineering
Tech4You	Manuela Carini	Science and Engineering of the Environment, Construction and Energy
Tech4You	Manuela Carini	Science and Engineering of the Environment, Construction and Energy
Tech4You	Fabio Scarciglia	Science and Engineering of the Environment, Construction and Energy
Tech4You	Giuseppe Mendicino	Science and Engineering of the Environment, Construction and Energy
Tech4You	Daniele Menniti	Civil and Industrial Engineering
Tech4You	Vincenza Calabrò	Science and Engineering of the Environment, Construction and Energy
Tech4You	Vincenza Calabrò	Mathematics and Computer Sciences
Tech4You	Vincenza Calabrò	Information and Communication Technologies
Tech4You	Roberto Gaudio	Science and Engineering of the Environment, Construction and Energy



Project Name	Referring	PhD afferent
Tech4You	Elvira Brunelli	Life Science and Technology
Tech4You	Nicodemo Passalacqua	Life Science and Technology
Tech4You	Nicodemo Passalacqua	Mathematics and Computer Sciences
Tech4You	Gregorio Cappuccino	Information and Communication Technologies
Tech4You	Floriano De Rango	Information and Communication Technologies
Tech4You	Floriano De Rango	Information and Communication Technologies
Tech4You	Floriano De Rango	Civil and Industrial Engineering
Tech4You	Mauro La Russa	Teach
Tech4You	Mauro La Russa	Teach
Tech4You	Mauro La Russa	Teach
Tech4You	Mauro La Russa	Information and Communication Technologies
Tech4You	Mauro La Russa	Teach
Tech4You	Loris Barbieri	Civil and Industrial Engineering
Tech4You	Loris Barbieri	Civil and Industrial Engineering
Tech4You	Fabio Bruno	PhD Programme in Humanities
Tech4You	Fabio Bruno	PhD Programme in Humanities
Tech4You	Fabio Bruno	Teach
Tech4You	Francesco Altimari	PhD Programme in Humanities
Tech4You	Francesco Altimari	Teach
Tech4You	Marcello Maggiolini	Life Science and Technology
Tech4You	Marcello Maggiolini	Translational Medicine
Tech4You	Marcello Maggiolini	Translational Medicine
Tech4You - CNR	Giuseppe Mendicino	Science and Engineering of the Environment, Construction and Energy
Tech4You - CNR	Girolamo Giordano	Science and Engineering of the Environment, Construction and Energy
Tech4You - CNR	Vincenza Calabrò	Science and Engineering of the Environment, Construction and Energy
Tech4You - CNR	Vincenza Calabrò	Life Science and Technology
Tech4You - CNR	Gregorio Cappuccino	Civil and Industrial Engineering
Tech4You - CNR	Floriano De Rango	Information and Communication Technologies
PE notice		
AGE-IT	Giuseppe Passarino	Life Science and Technology
AGE-IT	Mariafrancesca Scalise	Life Science and Technology
AGE-IT	Giacinto Bagetta	Translational Medicine
AGE-IT	Luigi Bruno	Civil and Industrial Engineering
AGE-IT	Raffaele Gravina	Information and Communication Technologies



HAVING ESTABLISHED whereas the measures covered by the financing provided for in that Decree 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 achieving 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 "do not cause 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 31 May 2021 (c.d. Simplification Decree), as amended by the conversion Law no. 108 of 29 July 2021 on the management of the PNRR;

HAVING REGARD the note by which the Coordinator of the Doctorate Course in Information and Communication Technologies, requested an additional place with scholarship for the XXXVIII cycle funded by the CNR under the PNRR referred to in the Public Notice of the Ministry of Universities and Research (MUR) No. 3264 of 28/12/2021, Mission 4, "Education and Research" - Component 2, "From research to enterprise" - Investment line 3.1, "Fund for the implementation of an integrated system of research and innovation infrastructures", funded by the European Union - NextGenerationEU;

WHEREAS the note, with which the Coordinator of the Doctoral Course in Life Science and Technology, requested an additional place with scholarship for the XXXVIII cycle funded by the CNR under the PNRR referred to in the Public Notice of the Ministry of Universities and Research (MUR) No. 3264 of 28/12/2021, Mission 4, "Education and Research" - Component 2, "From research to enterprise" - Investment line 3.1, "Fund for the implementation of an integrated system of research and innovation infrastructures", funded by the European Union - NextGenerationEU;

HAVING REGARD to the resolution of the Board of Directors of 22 December 2022 on the two additional positions financed by the CNR;

HAVING REGARD to the agreements concluded or in the process of being concluded between the University of Calabria and the CNR for the funding of the PhD grants in this call for proposals XXXVIII cycle financed by the CNR itself;

WHEREAS the financial resources available under the above projects to cover the doctoral grants referred to in this selection;

DEEMED necessary to provide for the issuance of the call for supplementary selection for the award of doctoral grants under the National Recovery and Resilience Plan - XXXVIII cycle - A.A. 2022/2023;

DECREES

Art. 1 Indiction

1. It is announced at the University of Calabria the call for public selection supplementary for the award of doctoral scholarship n. 51 to PhD courses under the National Recovery and Resilience Plan (NRP), Mission 4, component 2 "From research to enterprise", funded by the European Union NextGenerationEU for projects: "National Centres" "Ecosystems of Innovation", "Research Infrastructures" and "Extended Partnerships" for the PhD Courses of the XXXVIII academic year 2022/2023.

2. The n. 51 places with bag are divided as follows:



- no. 6 within the "National Champions" (CN);
- no. 38 within the "Ecosystems of Innovation" (ECS) of which n. 6 CNR;
- no. 5 within the "Extended Partnerships";
- no. 2 within the framework of the "Research Infrastructures and Technological Innovation Infrastructures" (INFR) funded by research bodies;

The distribution of these scholarships between doctoral courses is as follows:

PhD Course	CN scholarship	ECS scholarship		PE scholarship	INFR scholarship	Totale
		Unical	CNR			
PhD Programme in Humanities	0	3	0	0	0	3
Information and communication Technologies	0	5	1	1	1	8
Civil and Industrial Engineering	3	5	1	1	0	10
Life science and Technologies	0	3	1	2	1	7
Mathematics and Computer Sciences	0	2		0	0	2
Translational Medicine	0	2		1	0	3
Science and Engineering of the Environment, Construction and Energy	0	6	3	0	0	9
Physical, Chemical and Materials Sciences and Technologies	3	0		0	0	3
Teach	0	6		0	0	6
TOTAL	6	32	6	5	2	51
		38				

3. This call will be published on the website of the Ministry of University and Research, on the European site Euraxess and on the portal of the University of Calabria at the following links:

<https://www.unical.it/didattica/offerta-formativa/dottorati/> e

https://unical.portaleamministrazionetrasparente.it/pagina874_tc-7_dottorati-di-ricerca.html

is equivalent to a notification to all intents and purposes.

4. For each doctoral course in Annex A the Coordinator, the duration, the proposing Department and any other departments involved, the Areas CUN, the research topics or the curricula of the course are specified, the conditions for participation, the conditions for admission, the qualifications to be attached to the application for participation, the criteria for evaluating the tests, the number of study places and scholarships, specifying the funding entities and the research objectives/themes, including in relation to the individual curricula, if any, information on the test diary, the possible address for information and the website of the course, are listed in Annex A "Analytical Cards Doctoral Courses XXXVIII cycle - A. A. 2022/2023" which is an integral and substantial part of this call.

5. Additional posts and scholarships may be made available before the evaluation is carried out and until candidates for the selection procedure conclude the evaluation, without prejudice to the deadline for the submission of applications, provided for by the following art. 4.

6. The activation of scholarship posts financed by external bodies is subject to completion of the agreements by the date of completion of the selection procedures.



Finanziato
dall'Unione europea
NextGenerationEU



7. Any changes, updates or additions to the content of the notice will be disclosed, exclusively, with the publication on the portal of the University of Calabria at the following links:

<https://www.unical.it/didattica/offerta-formativa/dottorati/> and
https://unical.portaleamministrazionetrasparente.it/pagina874_tc-7_dottorati-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 does not assume any responsibility for the dispersion of communications dependent on inaccurate indications of personal contact details of the candidate or failure or late communication of their change, nor by telematics' problems.

8. La presentazione della domanda di partecipazione tramite la procedura di cui all'art. 4 presuppone la conoscenza da parte del candidato delle norme contenute nel presente bando, nel Regolamento di Ateneo in materia di dottorato di ricerca e la normativa relativa alla fonte di finanziamento nell'ambito del Piano Nazionale di Ripresa e Resilienza.

9. The beginning of the doctoral courses relating to the grants referred to in this call for proposals is **1° March 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 nationality, persons with one of the following educational qualifications:

- a. Bachelor's degree old ordering (ex ante D.M. 509/1999);
- b. Master's Degree/Degree (D.M. 509/1999 and D.M. 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.

For access to the selection of some of the Doctoral Courses, it is necessary to hold specific Master's/ Specialist (or equivalent) degrees, as indicated in Annex A to this call

2. May also apply for participation in the notice of admission those who will achieve the title required by paragraph 1, by the date of enrolment in the doctoral course. If the candidate is a winner, he will be admitted "with reservation" and must submit, by the date of registration for the doctoral course, by e-mail to dottorati@unical.it 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.

3. May not apply for participation in the selection those:
- Applicants who have previously received a PhD grant or a fraction thereof;
- have already obtained a PhD.

Art. 3 Degree released by foreign universities

1. The suitability of the qualification obtained at foreign universities is ascertained, only for the purposes of admission to selection, by the Selection Board 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, the candidates must submit, in the manner indicated in Article 5 below, the degree certificate, indicating the exams taken and the study plan followed, both first and second level. The candidate can also attach the supplement degree or 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 course. If these documents are not written in Italian or English, they must, under penalty of exclusion from the competition, be accompanied by a sworn translation in Italian or English. The Selection Board will assess the suitability 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 assessment.

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 Admission

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

2. The telematic procedure for the submission of the application for online admission will be active from 8 August 2022 and will be **unavoidably** closed **at 12:00** (twelve o'clock-Italian time) on **30 January 2023**.

3. The telematic procedure provides for the preliminary registration for those who are not in possession of a student matricule of the University of Calabria, in order to obtain the credentials that allow access to the next phase of filling in the application

4. Candidates who are already registered must access the Reserved Area using the credentials they already have. 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 to which any communications relating to the competition will be sent.

5. The application is considered to be submitted correctly only upon completion of the electronic procedure and can no longer be changed online.

6. The application is considered to be submitted correctly only upon completion of the electronic procedure and can no longer be changed online.

7. No admission fee will be paid.

8. La procedura di ammissione on-line prevede l'upload dei seguenti documenti in formato pdf:

- Self-certification of access certificate pursuant to Art. 47 D.P.R. 445/2000 (Annex B) for academic qualifications obtained in U.E countries;
- documentation required for the evaluation of candidates with an academic qualification obtained abroad;
- self-certification of exams taken during the academic career, for candidates not yet in possession of the title;
- research project, with a maximum length of 16,000 characters, unless otherwise specified in the PhD course on the specific research topics indicated in the National Recovery and Resilience Plan for which the candidate intends to compete;
- the candidate's curriculum vitae et studiorum;
- a copy, front/back, of a valid identity document;
- a copy of the Italian tax code;
- any additional qualification under assessment, as specified in "Annex A" to this notice.



9. All titles, documents and publications deemed useful for the purposes of the competition procedure must be attached in electronic format. pdf with a maximum size of 20 MB; exceptionally, any documentation that the candidate does not succeed in attaching can be sent by certified e-mail (PEC) to the 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 the annexes may submit the application together with the signed application for admission and a photocopy of a valid identity document in the same manner, within the mandatory deadline for expiry of the notice. In the event that the annexes are not received by the deadline and in the manner indicated, will be evaluated only the documents entered with the computerized procedure. The University assumes no responsibility for any telematic problems attributable to third parties.
10. Candidates wishing to participate in more than one admission selection must apply for each selection, each accompanied by the required qualifications.
11. Applications submitted in a manner other than that set out above will not be considered.
12. It is the candidate's responsibility to ensure the correct conclusion of the IT procedure; in this regard, this University declines all responsibility for any malfunctions of the computer system close to the deadline.
13. Candidates with proven disabilities, pursuant to Law No. 104/1992 as supplemented by Law 17/99, may request, in relation to their disability, the necessary aids and any additional time for the completion of the test. Candidates suffering from specific learning disorders in accordance with Law No. 170/2010 in relation to the type of test are granted an additional time equal to 30 percent more than the one defined. Disabled applicants, if they intend to use the aids provided by Law n. 104/1992 as integrated by Law 17/99, will also have to report during the completion of 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 D.P.R. 445/2000. The University may, therefore, at any time order the exclusion of candidates from the selective procedure. The University will also, of its own motion, 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 take, even after the selection, measures to exclude candidates who do not meet the requirements or who have not complied with the requirements of the notice.

Art. 5 Admissions Committees

1. The Admissions Committees of the selection for admission to doctoral courses are appointed by the Rector in compliance with the "University Regulations in the field of PhD" of the University of Calabria.
2. The Commission of selection is responsible for the entire selection procedure of the candidates, for the drafting of the minutes, for the formulation of the merit rankings and for the assignment of the doctoral scholarships.
3. The composition of the individual committees will be published on the portal of the University of Calabria at the following links:
<https://www.unical.it/didattica/offerta-formativa/dottorati/> e
https://unical.portaleamministrazionetrasparente.it/pagina874_tc-7_dottorati-di-ricerca.html.

Art. 6 Admission tests

1. The admission is carried out in accordance with the procedures specified for each course in Annex A,



an integral part of this decree.

2. The admission test log book for each course in Annex A shall be notified in full 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.
3. Failure to submit to the admission tests will be considered as renunciation of selection.
4. To support the tests, applicants must present one of the following identity documents valid: identity card, passport, driving licence with photograph, firearms licence, identification cards - bearing a photograph and a stamp or other equivalent mark - issued by a State Administration.
5. The selective procedure, aimed at ascertaining 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 a written and/or oral test.
6. In the schedule of each doctorate are indicated the points available for each individual test, the award criteria, the minimum thresholds for admission to the following test.
7. The Commission, prior to the evaluation of qualifications, will have to establish the evaluation and scoring criteria for each individual item (research project, curriculum vitae et studiorum, any certifications, any publications, etc.). In the case of candidates who are not yet in possession of a research doctorate qualification, the Commission will have to consider the self-certified academic career at the time of the application for an appropriate assessment of their training.
8. The written test, if any, should be carried out by all candidates, normally in Italian, without prejudice to the possibility for the Commission to decide on the conduct of the subject, for all candidates, in a foreign language.
9. The oral exam is public and includes the verification of the knowledge of one or more foreign languages.
10. The test can be supported, because of the epidemiological emergency by COVID-19 still in place, in telematic mode. On the website of each doctoral course will be made available information for the telematic link and the conduct of the selections. No personal communications will be sent to candidates. Therefore, it remains their responsibility to consult the sites of the courses listed in Annex A of the call even close to the scheduled dates. It is the responsibility of the candidates to provide adequate video equipment in order to allow the Selection Board to identify and display during the test. To access the tests, candidates must show the same identification document attached to the online application. Failure to make the connection, the unavailability of the candidate on the date or time set or the failure to present the transmitted identification document shall 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.
11. For those Courses that do not include the written test, it will be allowed to candidates resident or domiciled abroad and to all candidates who demonstrate, providing adequate motivation to the Jury, 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 in writing that must be sent to the PEC (www.unical.it/pec) of the Administrative Department of the Course reported in the individual PhD card as well as to the address dottorati@unical.it, immediately after the publication of the results of the qualification evaluation for as indicated in the individual doctoral cards. A copy of a valid identification document must accompany the application. Applicants must ensure the use of a webcam to



allow their identification to the Selection Board and must be available on the day and time set out in the test log of Annex A. The Commission may choose to agree with the Apply for 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.

12. At the end of the evaluation, the Commission, based on the scores reported by each candidate, prepares the ranking of merit.

13. Subsequently, the Commission assigns the scholarships taking into account the position in the merit ranking, the number of scholarships available, the topic of the research project or the suitability of the candidate to develop the research project of the positions offered.

According to the national legislation in force, each candidate may not benefit from more than one doctoral grant at the same time.

14. For the assignment of the places with scholarship, in case of equal score in the overall ranking of merit, the assessment of the economic situation prevails.

15. The President of the Admissions Committees transmits the documents relating to the competition procedure to the Rector.

16. Candidates are granted access to the documentation of the competition procedure, in accordance with current legislation.

Art. 7 Admission to doctoral courses

1. The Rector approves the acts of the selections and decrees the ranking of merit for the admission of candidates.

2. The ranking of merit will be made known by publication on the portal of the University of Calabria to the following link:

<https://www.unical.it/didattica/offerta-formativa/dottorati/> and
https://unical.portaleamministrazionetrasparente.it/pagina874_tc-7_dottorati-di-ricerca.html.

3. Candidates will therefore not receive any personal communication.

4. Candidates shall be admitted to the courses in accordance with the ranking list drawn up by the Admissions Committees until all the candidates have competed for each doctorate. In correspondence of any waivers of the right holders before the beginning of the course will succeed as many candidates according to the order of the ranking drawn up by the committee, always in compliance with research issues. In case of useful placement in more than one ranking, the candidate will have to exercise the option for a single doctoral course.

5. The selection involves the allocation of only places covered by scholarship. Therefore, the renunciation of the scholarship entails the renunciation of the doctoral course.

Art. 8 Enrollment to PhD Courses

1. The winners must register using the procedure available at <https://unical.esse3.cineca.it/> within the terms indicated at the same time as the publication of the Rector's Decree approving the acts of the



selections. Failure to complete registration will result in forfeiture of the right to admission to the doctoral course.

2. The amount of fees for the attendance of doctoral courses, charged to all doctoral students, is inclusive of the regional fee for the right to study, stamp duty and insurance premium pursuant to the "Regulations fees, contributions and exemptions 2022/2023" to which reference is made.
3. The non-EU winners, after matriculation, will have to hand over to the Research Doctorates Sector of the Postgraduate 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 University <https://www.university.it/index.php/dashboard> Portal under "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 Postgraduate 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 whose order the title refers. As an alternative to the declaration of value on site, 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 the validity of the title in the country of achievement for enrolment in a course similar to the Doctorate, the interested person lapses from the Doctoral Course.
6. In the event of the resignation of the persons entitled, the vacant posts are assigned to those who hold a useful position in the ranking of merit, with convocation by e-mail.
7. The University reserves the right to carry out appropriate checks on the veracity of the content of the declarations of the winner. If the content of the statements is not true, the winner shall forfeit the consequential benefits from the order issued based on the untrue statement.

Art. 9 Scholarships

1. The amount of the doctoral grant is € 16,243.00 per year gross of the social security costs borne by the scholarship holder. The PhD grant is exempt from payment of local personal income tax (IRPEF) and is subject to payment of separately managed INPS social security contributions, two-thirds to be borne by the University and one-third by the grant holder. The PhD students enjoy the protection and related rights. Scholarship holders will have to register for the separate management of INPS.
2. The total annual gross personal income limit to be eligible for the PhD scholarship is € 15,000.00. The determination of this income shall be based on income derived from assets and on emoluments of any other kind, including occasional payments. The income refers to the tax period for the calendar year of greatest use of the scholarship (for the academic year 2022/2023 the year 2023). Exceeding the income limit, in one of the academic years in which the grant was awarded, results in the loss of the right to the grant 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 doctoral grant 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. Doctoral grants may not be combined with research grants or other scholarships in any capacity awarded except those awarded by national or foreign institutions which are useful for supplementing training or research activities with stays abroad.
5. The amount of the PhD grand 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 from 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-tutorship with foreign universities and for those activated in associated form pursuant to article 3, paragraph 2 of D.M. n. 226/2021. The PhD student is required to certify the effective stay abroad, otherwise they will be refunded. The increase may not be applied for stays spent in the country of origin or the country of residence of the doctoral candidates.
6. Those who have received a scholarship for a doctoral course, even in part, are not eligible for a second scholarship.

Art. 10 Rights and duties of doctoral students

1. Without prejudice to the rights and obligations provided by the current University Regulations on PhD and D.M. n. 226/21, the acceptance of the exchanges in the within of the National Plan of Recovery and Resilience implies the compliance with the relative obligations previewed from the relative ministerial Decrees.
2. Admission to the doctorate involves an exclusive and full-time commitment. Students enrolled in Phd courses have the obligation of attending and carrying out all the study and research activities within the framework of the structure of affection in the manner provided by the Board of Professors, to which, at the end of each year of course, they must submit a report on their research activities, 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 scholarship.
4. The PhD students will have to 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 Teaching Board.
5. The PhD students are required to read and the Regulations of the University in the field of PhD of the University of Calabria and to periodically consult the web portal, in particular the page <https://www.unical.it/didattica/offerta-formativa/dottorati/>.

Art. 11 Final examination and qualification

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 the 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 investigation, as required by the University Regulations in the field of Phd.

Art. 12 Property of results

1. Intellectual property rights in respect of possible results achieved by the PhD student, including, but not limited to, software, patentable or otherwise industrial inventions, 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 Universities, Companies or Entities involved.

2. The PhD student has the obligation to communicate without delay to the Coordinator the achievement of the results, committing himself not to divulge 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 may be invited to sign a special commitment to the recognition of intellectual property rights and confidentiality in relation to information, data and documents of a confidential nature which should come to your knowledge in the performance of your activity at and/or on behalf of the University.

Art. 13 Processing of personal data

1. In accordance to art. 13, of the General Data Protection Regulation (Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016), inform candidates that the processing of personal data provided by them during participation in the selection or in any case acquired for this purpose by the University of Calabria is aimed solely at the performance of the competition activities and will be carried out by persons in charge of insolvency proceedings, also by the examining board, at the University of Calabria, with the use of procedures also computerized, in the ways and to the extent 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 participation requirements and the possession of securities and their failure to indicate them may preclude such verification.

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 selection procedure for the purposes of managing the academic career of the winners. They may also be used, in aggregate form and for statistical purposes, by the MUR.

2. 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 successful candidates.

3. Candidates shall be granted the rights referred to in Articles. 15 and ff. of the aforementioned Regulation 2016/679, in particular, the right to access their personal data, to request its rectification, cancellation, restriction of processing, as well as to oppose their processing, by addressing requests to the University of Calabria.

Data subjects who consider that the processing of personal data relating to them takes place 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 for by art. 77 of the Regulation itself, or to refer to the appropriate courts (art. 79 of the Regulation).

4. All documentation and information related to 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, Cubo 7/11, 87036 Arcavacata di Rende (CS), tel. (+39) 0984 493918; email: rpd@unical.it.



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Art. 14 Responsible for the procedure

In accordance to Law no. 241 of 7 August 1990, the officer in charge of the administrative procedure is the Head of the PhD Research Department of the Post graduate Area - University of Calabria (e-mail: dottorati@unical.it).

Art. 15 Final regulations

1. For what is not explicitly specified in this notice, the provisions of the current legislation on the subject, the University of Calabria University Regulations in the field of PhD research of the University of Calabria and the document on the National Recovery and Resilience Plan (PNRR), as well as the related ministerial implementing decrees.
2. This selection notice is translated into English but in case of disputes, the reference legal text will be the one in Italian.

Il Rettore
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.

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Annex A
Analytical Tables PhD Courses - Cycle 38th - Academic Year 2022/2023

SYNTHESIS POSITIONS AVAILABLE				
N.	PhD Course	Coordinator	Available positions	Pages
1	PhD Programme in Humanities	Prof. Raffaele Perrelli	3 positions with scholarship under the PNRR "Innovation ecosystems" - Tech4You	17-18
2	Information and Communication Technologies	Prof. Giancarlo Fortino	8 positions with scholarship under the PNRR of which: no. 6 "Innovation ecosystems" - Tech4You of which no. 1 by CNR no. 1 "Extended partnership" - AGE-IT no. 1 "Research Infrastructures and Technological Innovation Infrastructures" by CNR - ITINERIS	19-20
3	Civil and Industrial Engineering	Prof. Enrico Conte	10 positions with scholarship under the PNRR of which: no. 3 "National Champions" - HPC, Big data e Quantum Computing no. 6 "Innovation ecosystems" - Tech4You of which no. 1 by CNR no. 1 "Extended partnership" - AGE-IT	21-23
4	Life Science and Technology	Prof. Tommaso Angelone	7 positions with scholarship under the PNRR of which: no. 4 "Innovation ecosystems" - Tech4You of which no. 1 by CNR no. 2 "Extended partnership" - AGE-IT no. 1 "Research Infrastructures and Technological Innovation Infrastructures" by CNR - ITINERIS	24-25
5	Mathematics and Computer Sciences	Prof. Giorgio Terracina	2 positions with scholarship under the PNRR "Innovation ecosystems" - Tech4You	26-27
6	Translational Medicine	Prof.ssa Stefania Catalano	3 positions with scholarship under the PNRR of which: no. 2 "Innovation ecosystems" - Tech4You no. 1 "Extended partnership" - AGE-IT	28-29
7	Science and Engineering of the Environment, Construction and Energy	Prof. Salvatore Critelli	9 positions with scholarship under the PNRR "Innovation ecosystems" - Tech4You of which no. 3 by CNR	30-31
8	Physical, Chemical and Materials Sciences and Technologies	Prof.ssa Gabriella Cipparrone	3 positions with scholarship under the PNRR "National Champions" - HPC, Big data e Quantum Computing	32-33
9	Technology Applied to Cultural Heritage	Prof. Roberto Franco Guarisci	6 positions with scholarship under the PNRR "Innovation ecosystems" - Tech4You	34-35



PhD PROGRAMME IN HUMANITIES.

Coordinator	Prof. Raffaele Perrelli – Department of Humanities – st. Pietro Bucci, Cube 28/B – 87036 Arcavacata, Rende (CS) e-mail: raffaele.perrelli@unical.it - SSD: L-FIL-LET/04	
Duration	3 Years	
Main Department	Department of Humanities	
Requirements of Participation	Italian University Degree (<i>ante</i> DM 509/1999) or Italian Specialist/ Master's Degree (<i>ex</i> DM 509/1999 and DM 270/2004) or equivalent foreign Degree.	
Application Procedures	Assessment of Qualifications, Written and Oral Examinations.	
Mandatory documents to be enclosed	<ul style="list-style-type: none"> - Analytical <i>Curriculum Vitae et Studiorum</i> (CV), which must include the training and research activities with the title of the dissertations for the bachelor's and master's degrees or equivalent, the eventual attendance to any postgraduate courses, eventual scholarships won, and eventual previous research experiences in Italy and/or abroad; - research project of 10.000 characters max., spaces included, bibliography excluded. For the selection, the candidates must present a project from which it can be discerned the propensity for research and their ability to independently plan and organize the different phases of the project; - potential publications with ISSN/ISBN code. 	
Assessment Criteria	Total Score: 90/90	
	Evaluation of Qualifications	Total maximum Score: 30/30
	Analytical <i>Curriculum Vitae et Studiorum</i> (CV) of training and research activities on archaeological and historical-artistic issues.	Total maximum Score: 3
	<p>Research project on the issues of enhancing the historical-artistic and archaeological heritage through digital technologies, evaluated according to the following criteria:</p> <ul style="list-style-type: none"> - mastery of the linguistic code of the scientific research; - expressive properties; - originality of the research project and scientific value of the reference theoretical and methodological instrumentation; - broadly congruence with the disciplinary areas represented by the historical-artistic and archaeological heritage; - consistency of the research project with the duration of the training course. 	Total maximum Score: 25
	Publications with ISSN/ISBN code.	Total score: 2



	<p>Written Examination</p> <p>Framework of the test: The applicants must demonstrate to have a comprehensive knowledge of Cultural Heritage subjects and issues. In particular, the evaluation of the test will be focused on:</p> <ul style="list-style-type: none"> - expressive properties, - argumentative skills, - mastery of the linguistic code and the basic bibliography of the humanistic research. 		<p>Total maximum score: 30/30</p>	
	<p>Oral Examination</p> <p>Discussion on:</p> <ul style="list-style-type: none"> - the research project; - <i>Curriculum Vitae et Studiorum</i>; - proficiency in one foreign language to choose from: French, English, Spanish, German. 		<p>Total maximum Score 30/30</p>	
	<p>Minimum Score required for the admission to the next test and for passing the oral examination: 21/30.</p>			
<p>Positions scholarships</p>	<p>and</p>	<p>3 (three) positions with scholarships financed by the PNRR - Innovation Ecosystems - Tech4You - for the implementation of a research project and divided as follows:</p> <ul style="list-style-type: none"> - no. 2 places on the subject matter of Cultural Heritage and, in particular, on enhancement of the archaeological heritage of minor Calabrian towns through innovative digital technologies; - no. 1 place on the subject matter of Cultural Heritage and, in particular, on accessibility to museum cultural heritage, through innovative digital technologies. 		
<p>Agenda</p>	<p>Description</p>	<p>When</p>	<p>Time</p>	<p>Where</p>
	Evaluation of Qualifications	February 7, 2023		https://disu.unical.it/
	Written Examination	February 9, 2023	9:00 am CEST	Classroom "M. Alcaro" (cube 28 B, ground floor)
	Oral Examination	February 13, 2023	15:00 pm CEST	Classroom "M. Alcaro" (cube 28 B, ground floor)
	<p>The results will be published on the Department of Humanities website at: https://disu.unical.it/</p>			
<p>Information</p>	<p>disu@unical.it</p>			
<p>PhD website</p>	<p>https://www.unical.it/didattica/offerta-formativa/dottorati/dottorato-in-studi-umanistici/</p>			



PhD Course in INFORMATION AND COMMUNICATION TECHNOLOGIES

Coordinator	Prof. Giancarlo Fortino – Department of Computer Science, Modeling, Electronics and Systems Engineering - DIMES – Via Pietro Bucci, Arcavacata di Rende (CS) – Phone: +390984.494063 – E-mail: g.fortino@unical.it	
Duration	3 years	
Main Department	Department of Computer Science, Modeling, Electronics and Systems Engineering – DIMES	
Partecipation requirements	<ul style="list-style-type: none"> - Italian university Master's Degree (Laurea ante DM 509/ 1999, Laurea Specialistica/Magistrale ex DM 509/1999 and DM 270/2004). - Equivalent Degree awarded by an accredited foreign university. 	
Admission procedures	Qualification assessment and oral examination. The knowledge of the english language will be assessed during the oral examination.	
Assessable qualification	<ul style="list-style-type: none"> - Research project; - Curriculum vitae, including a copy of Bachelor's and Master's Degree (in italian or english), and the list of examinations taken with grades and final mark. 	
Assessment criteria	Total maximum score 60	
	Qualification assessment	Maximum score 30
	Research project	Maximum score 10
	Curriculum vitae	Maximum score 20
	Oral examination Discussion on the proposed research project and on the disciplines of interest for the doctorate. Foreign candidates can take the exam via skype.	Maximum score 30 punti
	Minimum score required for the admission to the oral admission and for the oral examination: 21 pt	
Positions and scholarships	<p>8 (eight) positions with scholarships financed by the PNRR for the implementation of a research project on:</p> <ul style="list-style-type: none"> - Innovation Ecosystems - Tech4You (no.6 of which no.1 by CNR): 1) “Microwave Techniques for Environmental Protection and Monitoring”; 2) “Innovative systems for battery recycling”; 3) “Design and Deployment of a system for the ambient monitoring, heat map evaluation and the modeling of urban and extra-urban mobility modeling and analysis for the air pollution evaluation”; 4) “Design of an integrated i edge/cloud system based on a multi-Interface communication IoT gateway for a robust, scalable and eco-friendly communication of ambient parameters of on-board vehicle sensors”; 5) “Sensors, devices and techniques for the characterization of materials and degradation phenomena”; 6) “Study and Design of a data collection systems based on IoT technology for the discovery and evaluation of renewable sources 	



	potential” – by CNR; - Extended partnership – AGE-IT (no. 1): “Smart wearable technologies for active and healthy ageing”; - “Research Infrastructures and Technological Innovation Infrastructures” (no. 1) by CNR ITINERIS: “Big data analytics for climate and atmospheric monitoring”.			
Agenda	Description	Date	Time	Room
	Qualification assessment	February, 8 2023		
	Oral examination	February, 9 2023	9.00 am CEST	Seminar room of DIMES – University of Calabria – Arcavacata di Rende (Cosenza) Italy / On- line (for foreign prospective students)
	The results of the exam will be posted on the PhD website: http://dottorato.dimes.unical.it/			
Information	g.fortino@unical.it			
PhD website	http://dottorato.dimes.unical.it/			



PhD Course in Civil and Industrial Engineering

Coordinator	Prof. Enrico Conte – Department of Civil Engineering – Via Pietro Bucci, Cubo 44B - Arcavacata di Rende (CS) – Tel.: 0984.496524 – e-mail: enrico.conte@unical.it – SSD: ICAR/07	
Duration	3 years	
Proposing Department	Department of Mechanical, Energy and Management Engineering	
Other Departments Involved	Department of Civil Engineering Department of Informatics, Modeling, Electronics and System Engineering Department of Environmental	
Participation Requirements	<p>– Master of Science (ex DM 270/204): LM-3 Landscaping, LM-4 Architecture and construction-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-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.</p> <p>– 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), 31/S (Master in Electrical Engineering), 33/S (Master in Energy and Nuclear Engineering), 34/S (Master in Management Engineering), 35/S (Computer Engineering), 36/S (Master in Mechanical Engineering), 38/S (Master in Engineering for the Environment and Territory); 61/S (Master in Science and Engineering of Materials).</p> <p>– Diploma Degree (ante DM 509/1999) equivalent to the aforementioned Master of Science and Master Degrees according to DM 09/07/2009;</p> <p>– Graduate Degree or equivalent to one of the above-mentioned Titles awarded by foreign universities legally recognized.</p>	
Admission procedure	Evaluation of qualifications and oral exam.	
Evaluable qualifications and documents	<ul style="list-style-type: none"> – Curriculum vitae et studiorum (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; – Research project proposed by the candidate; – Any publications; – Any Master Research Fellowships & Grants. 	
Evaluation Criteria	Maximum score 60 points	
	Evaluation of qualifications	Maximum score 30 points
	Research Project	Maximum score 15 points
	CV along with the Master Degree certificate containing the exams taken	Maximum score 9 points



	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	
	Publications	Maximum score 3 points
	Master, Research Fellowships & Grants	Maximum score 3 points
	<p>Oral Exam Examination procedures: The oral examination is based on the discussion of the research project proposed by the applicant and the scientific and professional experiences gained. In addition, the knowledge of the English language will be assessed through the comment and/or translation of a scientific article.</p>	Maximum score 30 points
	The minimum score required for accessing the oral exam and for passing it is 21 points.	
Positions and grants	<p>10 (ten) positions with a scholarship under the PNRR for the implementation of a research project on:</p> <ul style="list-style-type: none"> - National Champions - HPC, Big data e Quantum Computing (no. 3 positions): <ul style="list-style-type: none"> no. 1 position on the topic “Large-scale Discrete Element Modelling (DEM) of the behaviour of powders subjected to complex adhesive/cohesive interactions”; no. 1 position on the topic “Multiscale numerical modeling for manufacturing processes' analysis in bioengineering applications”; no. 1 position on the topic “Simulation-based Digital Twins for intelligent monitoring, management and control of complex systems and techniques to extend their useful life”; - Innovation ecosystems - Tech4You (no. 6 positions one of which by CNR): <ul style="list-style-type: none"> no. 1 position on the topic “Robotics solutions for the documentation and monitoring of the underwater cultural heritage”; no. 1 position on the topic “Mechatronic tools for materials sampling in the underwater environment”; no. 1 position on the topic “Innovative systems for driving performance analysis and assessment of environmental impact of traffic flow”; no. 1 position on the topic “Recovery of lithium salts from exhausted batteries through membrane processes” (Istituto per la Tecnologia delle Membrane ITM-CNR); no. 1 position on the topic “Development of a new Early Warning platform/App on Urban Flooding High Risk Areas”; no. 1 position on the topic “Development of a novel high efficient solar system for water and energy usages in the buildings”; - Extended partnership – AGE-IT (no. 1 position): <ul style="list-style-type: none"> no. 1 position on the topic “Exosuits, prostheses and assisted robotics for biomedical applications”. 	



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	Exam	Date	Hour	Location
Diary of the Examinations	Evaluation of qualifications	February 6, 2023		
	Oral Exam	February 9, 2023	9:30 am CEST	Aula "Giannattasio" – DINCI, cubo 45B, piano ponte superiore – Università della Calabria, Arcavacata di Rende (CS).
	Examination results will be published on the PhD website at: dici.unical.it			
Information	enrico.conte@unical.it , domenico.mundo@unical.it			
Website of the course	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 anni	
Main Department	Department of Biology, Ecology and Earth Sciences (DiBEST)	
Participation Requirements	<p>Italian Master's Degree (DM 270/04): LM-6 Biologia; LM-7 Biotecnologie Agrarie; LM-8 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 agrarie; LM-70 Scienze e tecnologie alimentari; LM-74 Scienze e tecnologie geologiche, 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.</p> <p>- Italian Specialist Degree (ex DM 509/99): 3/S(specialistiche in architettura del paesaggio); 6/S (specialistiche in biologia); 7/S (specialistiche in biotecnologie agrarie); 8/S (specialistiche in biotecnologie industriali), 9/S (specialistiche in biotecnologie mediche, veterinarie e farmaceutiche); 12/S (specialistiche in conservazione e restauro del patrimonio storico-artistico), 14/S (specialistiche in farmacia e farmacia industriale), 20/S (specialistiche in fisica), 23/S (specialistiche in informatica), 26/S (specialistiche in ingegneria biomedica), 27/S (specialistiche in ingegneria chimica), 28/S (specialistiche in ingegneria civile), 33/S (specialistiche in ingegneria energetica e nucleare), 34/S (specialistiche in ingegneria gestionale), 36/S (specialistiche in ingegneria meccanica), 38/S (specialistiche in ingegneria per l'ambiente e il territorio), 45/S (specialistiche in matematica), 46/S (specialistiche in medicina e chirurgia), 47/S (specialistiche in medicina veterinaria), 50/S (specialistiche in modellistica matematico-fisica per l'ingegneria), 61/S (specialistiche in scienza e ingegneria dei materiali), 62/S (specialistiche in scienze chimiche), 68/S (specialistiche in scienze della natura), 69/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 agroalimentari), 81/S (specialistiche in scienze e tecnologie della chimica industriale), 82/S (specialistiche in scienze e tecnologie per l'ambiente e il territorio), 85/S (specialistiche in scienze geofisiche), 86/S (specialistiche in scienze geologiche), 92/S (specialistiche in statistica per la ricerca sperimentale)</p> <p>-Italian Degree (ante DM 509/99) or equivalent to Master degree above listed. -Academic degrees obtained abroad equivalent to Master degree above listed.</p>	
Admission Procedures	Evaluation of qualifications and oral examination. The knowledge of the English Language will be assessed during the oral examination.	
Assessable qualification	<ul style="list-style-type: none"> - Research Project - Curriculum Vitae et Studiorum (CV) - Any other qualifications (publications, participation in conferences). 	
Assessment criteria	TOTAL SCORE 60/60	
	Evaluation of qualifications	Total score 30/30
	Research Project Note: for the project use only the scheme present at the following link:	Total Score: 20
	CV	Total Score: 5
	Other qualifications: Publications, Participation at scientific meetings	Total Score: 5



	<p align="center">Oral Examination</p> <p>The oral examination will focus on the discussion of research project, curriculum vitae and other qualifications. Candidate's skills will 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.</p>		<p align="center">Total Score: 30/30</p>													
<p>Minimum Score required for the admission to the oral examination: 21 point.</p>																
<p>Positions and scholarship</p>	<p>7 (seven) positions with scholarship under the PNRR for the realization of a research project on:</p> <ul style="list-style-type: none"> - Innovation ecosystems - Tech4You (no.4 of which no.1 by CNR): <ol style="list-style-type: none"> 1) Monitoring and conservation of biodiversity (research area: Botany); 2) Evaluation of the use of Extra Virgin Olive Oil in the treatment of preeclampsia (research area: Physiology); 3) Geobiological and morphological characterization of pilot bioconstructions selected for the development of an automated system capable of mapping, three-dimensional survey and 3D reconstruction of underwater bioconstructed structures (research area: Paleontology and Paleoecology); 4) Inorganic photocatalytic membranes for wastewater purification (ITM-CNR_UNICAL; research area: Chemistry and Chemical Engineering); - extended partnerships - AGE-IT (no. 2): <ol style="list-style-type: none"> 1) Epigenetics of aging (research area: Genetics); 2) Cellular senescence (research area: Biochemistry); - Research Infrastructures and Technological Innovation Infrastructures (no. 1 CNR - ITINERIS): <ol style="list-style-type: none"> 1) Combined use of measurements of CO₂, CO, CH₄ and 13C concentrations, and other climate-altering components in the atmosphere: origins and temporal variations (research area: Earth Sciences). 															
<p>Agenda</p>	<table border="1"> <thead> <tr> <th>Description</th> <th>When</th> <th>Time</th> <th>Where</th> </tr> </thead> <tbody> <tr> <td>Evaluation qualification</td> <td>February 13, 2023</td> <td></td> <td></td> </tr> <tr> <td>Oral Examination</td> <td>February 14, 2023</td> <td>09:00 am CEST</td> <td>Oral exams will take place via video conference with Microsoft® Teams, Zoom, Google Meet or a similar program. The platform access link will be sent beforehand by email to each candidate admitted to the oral exam.</td> </tr> </tbody> </table>	Description	When	Time	Where	Evaluation qualification	February 13, 2023			Oral Examination	February 14, 2023	09:00 am CEST	Oral exams will take place via video conference with Microsoft® Teams, Zoom, Google Meet or a similar program. The platform access link will be sent beforehand by email to each candidate admitted to the oral exam.			
Description	When	Time	Where													
Evaluation qualification	February 13, 2023															
Oral Examination	February 14, 2023	09:00 am CEST	Oral exams will take place via video conference with Microsoft® Teams, Zoom, Google Meet or a similar program. The platform access link will be sent beforehand by email to each candidate admitted to the oral exam.													
<p>The results of the tests will be published at the web address: https://www2.unical.it/portale/strutture/dipartimenti_240/dibest/ricerca/dottorati/lifescience/newseventi/</p>																
<p>Information</p>	<p>Coordinator: Prof. Tommaso Angelone, Dipartimento di Biologia, Ecologia e Scienze della Terra (DiBEST), Tel.: +39 0984/492902, e-mail: tommaso.angelone@unical.it</p>															
<p>Phd website</p>	<p>https://www.unical.it/portale/strutture/dipartimenti_240/dibest/ricerca/dottorati/lifescience/</p>															



Doctorate in Mathematics and Computer Science

Coordinator	Prof. Giorgio Terracina – Dipartimento di Matematica e Informatica – Via Pietro Bucci - Cubo 31/B, Arcavacata di Rende (CS) Tel.: +39 0984.496465 – E-mail: giorgio.terracina@unical.it	
Duration	3 years	
Main Department	Department of Mathematics and Computer Science	
Other Department Involved	Department of Mechanical, Energy and Management Engineering	
Participation Requirements	Italian Specialist/Master's Degree (ex DM 509/1999 e DM 270/2004) or equivalent Degree awarded by an accredited foreign university or Italian University Degree (ante DM 509/1999).	
Admission Procedures	Evaluation of qualifications, written examination and oral examination. The knowledge of the English Language will be assessed during the oral examination.	
Assessable qualification	<p>- Research Project</p> <p>- Curriculum Vitae et Studiorum (CV), including a copy of Bachelor's and Master's Degree (in Italian or English), and the list of examinations taken with grades and final mark (download the template from www.mat.unical.it/phd/Admission)</p> <p>An additional copy of above-mentioned documents has to send to the following e-mail address: marilena.lovei@unical.it with the object "PhD Admission XXXVIII cycle".</p>	
Assessment criteria	Total Score 90/90	
	Assessable Qualification	Total Score 30/30
	Research Project	Total Score 6
	Curriculum vitae et studiorum	Total Score 24
	Written Exam Operating methods: an essay and two exercises on the topics of the scholarships in the call for participation.	Total Score 30/30
	Oral Examination Operating methods: discussion about the project and written examination. Interview on the topics of the scholarships in the call for participation.	Total Score 30/30
	Minimum Score required for the admission to the next tests and for the oral examination: score 21/30 .	
Positions and scholarship	<p>2 (two) positions with scholarship funded under the PNRR – Innovation ecosystems - Tech4You intended for the realization of a research project in the following areas:</p> <ul style="list-style-type: none"> ● <i>Intelligent systems for water pollution monitoring and environmental protection</i> ● <i>Innovative AI-based computational models to find, reuse and analyze open data, for the identification of trends in biodiversity</i> 	



	Description	When	Time	Where
Agenda	Assessable qualification	February, 6 2023		
	Written Exam	February, 7 2023	09:00 am CEST	Exclusively in presence at Classroom MT11 – Cubo 30B, Department of Mathematics and Computer Science – University of Calabria Arcavacata di Rende (CS)
	Oral Examination	February, 9 2023	09:00 am CEST	Classroom MT11 – Cubo 30B, Department of Mathematics and Computer Science – University of Calabria Arcavacata di Rende (CS)
	The results of the exam will be posted on the site: www.mat.unical.it/phd .			
Information	marilena.lovoi@unical.it			
Phd website	www.mat.unical.it/phd			



PhD Course in 'Translational Medicine'

Coordinator	Prof.ssa Stefania Catalano - Dipartimento di Farmacia e Scienze della Salute e della Nutrizione - Edificio Polifunzionale, 87036 Arcavacata di Rende (CS) Tel.: +39 0984.496207 - e-mail: stefcatalano@libero.it - SSD: MED/05	
Duration	3 anni	
Main Department	Department of Pharmacy, Health and Nutritional Sciences	
Other Departments	Department of Chemistry Chemistry and Chemical Technologies	
Partecipation Requirements	<ul style="list-style-type: none"> - Italian Master's Degree (DM 270/04): LM-6 Biologia, LM-9 Biotecnologie mediche, veterinarie e farmaceutiche, LM-13 Farmacia e farmacia industriale, LM-17 Fisica, LM-21 Ingegneria biomedica, LM-22 Ingegneria chimica, LM-41 Medicina e chirurgia, LM-42 Medicina veterinaria, LM-53 Scienza e ingegneria dei materiali, LM-54 Scienze chimiche, LM-61 Scienze della nutrizione umana, LM-70 Scienze e tecnologie alimentari, LM-71 Scienze e tecnologie della chimica industriale, LM/SNT3 Scienze delle professioni sanitarie tecniche, LM/SNT4 Scienze delle professioni sanitarie della prevenzione; - Italian Specialist Degree (ex DM 509/99): 6/S (specialistiche in biologia), 9/S (specialistiche in biotecnologie mediche, veterinarie e farmaceutiche), 14/S (specialistiche in farmacia e farmacia industriale), 20/S (specialistiche in fisica), 26/S (specialistiche in ingegneria biomedica), 27/S (specialistiche in ingegneria chimica), 46/S (specialistiche in medicina e chirurgia), 47/S (specialistiche in medicina veterinaria), 61/S (specialistiche in scienza e ingegneria dei materiali), 62/S (specialistiche in scienze chimiche), 78/S (specialistiche in scienze e tecnologie agroalimentari), 79/S (specialistiche in scienze e tecnologie agrozootecniche), 81/S (specialistiche in scienze e tecnologie della chimica industriale), SNT_SPEC/3 (specialistiche nelle scienze delle professioni sanitarie tecniche), SNT_SPEC/4 (specialistiche nelle scienze delle professioni sanitarie della prevenzione); - Italian Degree (ante DM 509/99) or equivalent to master's degree listed above; - Academic degree's obtained abroad equivalent to master's degree listen above. 	
Assessable Qualification	Evaluation of qualifications and oral examination. During the oral examination, the knowledge of the English Language will be assessed.	
Documents to be enclosed	Curriculum Vitae e Studiorum (CV). Research Project. Academic qualification and/or job experiences. Scientific Publications.	
Assessment Criteria	Total Score 60/60	
	Evaluation Qualification	Total score 30/30
	Research Project	Score: 18
	CV	Score: 7
	Academic qualification and/or job experiences	Score: 3



	Scientific Publications	Score: 2		
	Oral Examination and knowledge of the English Language: The oral examination is based on the discussion of the research project proposed by the applicant.	Total score: 30/30		
	Minimum Score required for the admission to the oral examination: score 21/30			
Positions and Scholarship	<p>n. 3 (three) positions with scholarship granted by PNRR Research - Innovation ecosystems - Tech4You on the following topics:</p> <ul style="list-style-type: none"> - “Creation of multiplex panels for nutraceutical efficacy evaluation” (n.1); - “Development of protocols for the creation of functional and innovative raw materials through the enhancement of local products” (n.1); - “Research of diagnostic, prognostic and therapeutic biomarkers for post-stroke neurorehabilitation” (n.1). 			
Agenda	Test	Day	Time	Location
	Evaluation of qualifications	February 7, 2023		
	Oral examination	February 9, 2023	3:30 pm CEST	Aula Seminari Dip. FSSN University of Calabria Arcavacata di Rende (CS)
	The results will be published on the PhD website at: www.unical.it/portale/strutture/dipartimenti_240/dfsn/postlaurea/dottorati/			
Information	<p>Dott.ssa Gemma Capparelli Department of Pharmacy, Health and Nutritional Sciences University of Calabria Tel.: +39 0984.493109 Fax: +39 0984.493107 Email: gemma.capparelli@unical.it</p>			
PhD website	www.unical.it/portale/strutture/dipartimenti_240/dfsn/postlaurea/dottorati/			



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

Coordinatore	Prof. Salvatore Critelli - Department of Biology, Ecology and Earth Sciences (DiBEST) – Via Pietro Bucci – Cubo 15B - Tel.: 0984/493678 – E-mail: salvatore.critelli@unical.it – SSD: GEO/02	
Duration	3 years	
Proposer Department	Department of Environmental - DIAM	
Other Department Involved	Department of Mechanical, Energy and Management Engineering (DIMEG) Department of Biology, Ecology and Earth Sciences (DiBEST) physics department Department of Civil Engineering (DInCi) Department of Chemistry and Chemical Technologies (CTC) Department of Cultures, Education and Society (DiCES)	
Application Requirements	Master Degree (before the DM 509/1999) or Master Degree (ex DM 509/1999 and DM 270/2004); - Equivalent qualification, obtained from a foreign, legally recognized university.	
Evaluation procedure	Assessment of academic publications and titles, oral examination. During the oral exam, foreign language proficiency will be tested.	
Evaluable academic publication and titles	- Curriculum Vitae and Studiorum (CV); - Research project consisting of a minimum of 3 pages and a maximum of 6 pages, containing a brief state of the art, a description of the research objectives to be pursued during the PhD, the main contributions and/or research innovations itself; - Any scientific and technical reports and publications.	
Evaluation Criteria	Maximum score of 60 points	
	Assessment of the applicants publications and titles	Maximum score 30 points
	Research Project	Maximum score 20 points
	CV	Maximum score 5 points
	Scientific and technical reports, publications	Maximum score 5 points
	Oral examination. Selection criteria: 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 candidate's rationale for doctoral research. The candidate must also demonstrate to have a high level of expertise in a foreign language.	Maximum score 30 points
	The minimum threshold for being admitted to the oral examination and positive oral examination is of 21 points	
Application scholarships	9 (nine) positions with scholarship financed under the PNRR - Innovation Ecosystems - Tech4You of which n. 3 CNR for the realization of a research project in the following fields:	



	<p>1) Integrated study at the catchment area scale, aimed at estimating erosion rates from the watershed to the coastal sector through isotope tracers, multitemporal analysis and remote sensing - SSD GEO/04 (Supervisore: prof. Fabio Scarciglia);</p> <p>2) Remote sensing and AI-based techniques to address wildfire and drought risk - SSD: ICAR/02 (Supervisore: prof. Giuseppe Mendicino);</p> <p>3) Development of in-situ or remote monitoring systems for measuring geotechnical properties and water erosion of soils in fire-affected watersheds - (CNR-IRPI) (Supervisori: dr. Giuseppe Esposito; prof. G. Mendicino; prof. Alfonso Senatore);</p> <p>4) Photocatalytic membrane systems for the removal of microplastics from seawater CHIM/07 (CNR) (Supervisori: Alberto Figoli; prof. Raffaele Molinari; prof. Pietro Argurio);</p> <p>5) Development of membrane contactor units for the recovery of fresh water and minerals from the sea" - ING-IND/25 (CNR-ITM) (Supervisori: Dott.ssa Ing. Alessandra Criscuoli; Dott.ssa Ing. Francesca Macedonio; prof. Efrem Curcio);</p> <p>6) HYdrogen-Mediated wAste-to-Green fuEl- Studio e sviluppo di sistemi a membrana per il trattamento e la conversione di miscele gassose complesse contenenti idrogeno e/o CO₂ - ING-IND/27 (CNR) (Supervisori: dr. Giuseppe Barbieri; dr.ssa Adele Brunetti; prof. Girolamo Giordano);</p> <p>7) Analytical models for the simulation and prediction of the coastline evolution - SSD: MAT/07 (Supervisore prof.ssa Manuela Carini);</p> <p>8) Development of experimental platforms for monitoring the marine environment - SSD: ICAR/02 (Supervisore: prof. Mario Maiolo);</p> <p>9) Development of a system for the modelling of seabed and by-pass in the port area of silty-sandy and sandy-gravelly sediments trapped for the restoration of port functionality and the longshore sediment transport" - SSD: GEO/02 (Supervisore: prof. R. Dominici)</p>			
Agenda	Test	Date	Time	Room
	Assessment of documents and publications	February 7, 2023		
	Oral examination	February 14, 2023	9:00 a.m. CEST	Cubo 45A - Aula Seminari del Dipartimento di Ingegneria Ambientale (DIAM) Università della Calabria (CS)
	The test results will be posted on the website https://diatic.unical.it/			
Contact for information	salvatore.critelli@unical.it; tel. 0984-493678; marinella.tedeschi@unical.it; 0984-496650			
PhD website	https://www.unical.it/portale/strutture/dipartimenti_240/dibest/ricerca/dottorati/siace/			



PhD Course in PHYSICAL, CHEMICAL AND MATERIALS SCIENCES AND TECHNOLOGIES

Coordinator	Prof.ssa Gabriella CIPPARRONE - Dipartimento di Fisica - Via Pietro Bucci - Cubo 33/B, Arcavacata di Rende (CS) Tel.: +39 0984.496115 - E-mail: gabriella.cipparrone@fis.unical.it - SSD: FIS/03.	
Duration	3 years	
Main Department	Department of Physics	
Other Departments involved	Department of Chemistry and Chemical Technologies (CTC) Department of Computer Engineering, Modeling, Electronics and Systems Engineering (DIMES)	
Participation Requirements	Italian University Degree (ante DM 509/1999) or Italian/Master's Degree (ante DM 509/1999 and DM 270/2004) or equivalent Degree obtained abroad.	
Procedures for the admission	Evaluation of Qualifications and oral examination. The knowledge of English.	
Assessable qualification	<ul style="list-style-type: none"> - Curriculum vitae with details of any previous research experience; - Master Degree with the details of mark, duration and exams; - Research project; - List of published scientific articles (eventual). 	
Assessment criteria	Maximum score 60 points	
	Qualification	Maximum score 30 points
	Research project	
	CV and any previous research experience	
	Eventual published articles	Maximum score 30 points
Oral examination English presentation of the candidate research project and eventual discussion on papers published by the candidate.		
Minimum score to reach the position: 21 pt		
Positions and scholarship	<p>3 (three) positions with scholarship within the PNRR for the realization of a research project on:</p> <ul style="list-style-type: none"> - national champions (n. 3): 1. scholarship on the topic "Dielectric Response and Excited State Properties of Two-Dimensional, Periodic Systems via Time Dependent Density Functional Theory"; 2. scholarship on the topic "Development of AI-inspired algorithms, codes and computational strategies for the theoretical and experimental study of fundamental interactions"; 3. scholarship on the topic "High Performance Computing in plasma astrophysics and numerical relativity". 	



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	Description	Date	Time	Room
Agenda	Qualification assessment	February 8, 2023		
	Oral examination	February 9, 2023	9.30 am CEST	Seminars Hall of Physics Department of University of Calabria
	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-ricerca/			



PhD Course in “Technology Applied to Cultural Heritage”

Coordinator	Prof. Roberto Franco Guarasci - Department of Culture, Education and Society Tel.: +39 0984.494103 - e-mail: roberto.guarasci@unical.it - SSD: M-STO/08			
Duration	3 years			
Main Department	Department of Culture, Education and Society - DiCES			
Cooperating Institution	National Research Council			
Participation Requirements	Italian University Degree (ante DM 509/1999) or Italian Master's Degree (ex DM 509/1999 and DM 270/2004) or equivalent Degree obtained at legally recognized foreign universities			
Procedures for the admission	Assessment of qualifications, oral examination and research project. During the oral examination knowledge of English will be tested considering a level equal to or greater than B1 according to the Common European Framework of Reference for Languages (CEFR).			
Assessable qualifications	- Research project - Curriculum Vitae et Studiorum (CV)			
Assessment criteria	Total Score 60/60			
	Assessable Qualifications		Total Score 30/30	
	Research Project		Total Score 20	
	Curriculum vitae et studiorum (CV)		Total Score 10	
	Oral Examination Procedure: Project discussion and interview on topics related to research projects.		Total Score 30/30	
Minimum Score required for admission to the subsequent tests and for passing the oral examination: score 21/30 .				
Positions and scholarships	6 (six) positions with scholarship funded under the PNRR - Innovation Ecosystems - Tech4You Project, intended for the implementation of a research project on: <ul style="list-style-type: none"> - Innovative approaches for the promotion and dissemination of Cultural Heritage through eXtended Reality, storytelling and gamification; - Innovative solutions and technologies for improving cognitive and sensorial accessibility to Cultural Heritage; - Consolidant and green products for the protection of artifacts in marine-coastal areas; - Smart Device for the application of protective products on architectural surfaces; - Barriers for the protection of artefacts by the saline intrusion; - Integrated experimentation and validation of the pilot project to improve knowledge and mitigate the risk on relevant cultural sites in Calabria and Basilicata. 			
Agenda	Description	When	Time	Where
	Assessable qualifications	February 10, 2023		
	Oral Exam	February 14, 2023	9:30 am CEST	Classroom Aurora – Cubo 17B, Department of Culture,



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				Education and Society – University of Calabria Arcavacata di Rende (CS)
	The results of the exam will be posted on the website: https://dices.unical.it/ricerca/dottorato-di-ricerca/			
For Contact and Information	labdoc@unical.it			
Phd course website	https://www.unical.it/didattica/offerta-formativa/dottorati/dottorato-in-teach/			



ANNEX B Self-Declaration Affidavit (art. 46 D.P.R.28 December 2000 n. 445) *

The undersigned _____ Fiscal Code: _____
Place of birth _____ date of birth _____ Sex M/F _____ residence (city) _____
prov. _____ via _____ n. _____ cap _____ e-mail _____

I understand that any incorrect information and false statements are subject to the penalties provided, according to art. 76 of the D.P.R. 28 December 2000, n. 445, pursuant to and for the purposes of D.P.R. n. 445/2000, and on its own responsibility:

hereby declare

to be in possession of the following access title pursuant to art. 2 of the selection notice:

(please indicate precisely: exact name of the course, date of graduation and grade, University, list of exams with marks if required and for candidates not yet in possession of the qualification)

Degree _____ achieved on _____
with vote _____ at _____
list of exams and grades (possible) _____

A copy of the following identity document is attached: _____

The undersigned also declares to be informed, pursuant to and for the purposes of Legislative Decree No. 196 of 2003 and Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 that the personal data collected will be processed, also by computer, exclusively in the context of the procedure for which this declaration is made.

Place and date _____

Declared by (legible signature)

*This statement may relate to states, personal qualities or facts that are directly acquainted with the person concerned, as well as states, personal qualities and facts relating to other subjects of which he or she has direct knowledge. This statement must provide proof of any qualifications (eg qualifications, examinations, professional qualifications, etc.) that are not attached to the application, as self-certification. For the titles attached (eg documents issued by a public authority, copies of publications, copies of parchments or certificates of study or service qualifications, etc.) must in the same declaration state declare that they are in conformity to the original copy. Lastly, a copy of a validation document must be dated, signed and attached.

N.B. - Subscribing to the aforementioned statements is not subject to authentication where it is assigned in the presence of the employee. If this declaration is sent or filed directly by a person other than the candidate, photostatic copy, front and rear, of a document of the identity of the subscriber must also be produced. Only photographic identity documents issued by a state administration will be considered valid.