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The Rector

Given the Statute of the Mediterranean University of Reggio Calabria, adopted by Rectoral Decree No. 92 of March 29, 2012, published in the Official Gazette of the Italian Republic, general series, No. 87 of April 13, 2012, amended by Rectoral Decree No. 295 of October 15, 2013, published in the Official Gazette of the Italian Republic, general series, of November 16, 2013, and by Rectoral Decree No. 249 of August 25, 2023, published in the Official Gazette of the Italian Republic, general series, No. 206 of September 4, 2023;

Given Law No. 240 of December 30, 2010, and in particular Article 19;

Given Law No. 241 of August 7, 1990, "New provisions on administrative procedures and access to administrative documents" as amended and updated by Legislative Decree No. 127 of June 30, 2016, by Legislative Decree No. 222 of November 25, 2016, and by Legislative Decree No. 104 of June 16, 2017;

Given M.D. No. 226 of December 14, 2021, concerning the "Regulations for the accreditation of doctoral program venues and courses, and the criteria for the establishment of doctoral programs by accredited institutions";

Given M.D. No. 247 of February 23, 2022, with which, starting from July 1, 2022, the annual amount of the scholarship for doctoral studies is redefined at € 16.243,00 gross of social security contributions payable by the recipient;

Given R.D. No. 454 of December 9, 2022, with which the "University Regulation on Doctoral Research Programs" was adopted;

Given M.D. No. 301 of March 22, 2022, which approved the Guidelines for the accreditation of doctoral programs, redefining, in terms of indicators and parameters, the general requirements for the reaccreditation of doctoral research programs;

Given L.D. No. 152 of November 6, 2021, converted, with amendments, by Law No. 233 of December 29, 2021, Article 14-bis, which allocates 90 million euros for 2024;

Given D.D. No. 2329 of December 20, 2023 - Territorial agreements for advanced training for businesses, which provides universities with the possibility to enter into agreements with private and public entities to expand the educational offer for students;

Given the proposal for the territorial agreement for advanced training for businesses called "Magna Graecia Mediterranea" submitted on April 29, 2024, ID 93235;

Given R.D. No. 202 of May 29, 2025, adopting the Mediterranean University of Reggio Calabria Regulation on Student Contributions for the academic year 2025/2026;

Given M.D. No. 166 of March 2, 2025, "Definition of the list of particularly poor countries for the academic year 2025/2026" (Official Gazette No. 71 of March 26, 2025);

Given the Ministerial Note No. 2244 of January 30, 2025, whereby the proposal was deemed worthy of funding, limited to the development of training projects qualifying as university courses pursuant to Article 3 of Ministerial Decree No. 270 of October 22, 2004 (bachelor's degree, master's degree, specialization, first and second-level master's, and doctoral research programs);

Given D.D. No. 112 of February 5, 2025, with which the Mediterranean University of Reggio Calabria was assigned the funding related to Territorial Agreements, whose disbursement, pursuant to Article 2, is subject to the actual signing of the Agreement between the President of the Council of Ministers or their delegate, the Minister of University and Research, the Rector of the proposing university, and the Rectors of any other universities involved, as provided for by Article 14-bis, paragraph 3, of Legislative Decree No. 152 of November 6, 2021;

Given the note, registered with protocol number 13353 on April 30, 2025, through which the Ministry of University and Research transmits the operational guidelines for the accreditation procedures of doctoral programs for the academic year 2025/2026 – 41st cycle, setting the deadline for the CINECA procedure closure as June 12, 2025;

Given Rectoral Decree No. 202 of May 29, 2025, adopting the Regulation of the Mediterranean University of Reggio Calabria concerning student contributions for the academic year 2025/2026;

Considering that the administrative procedures related to the signing of the Agreement between the President of the Council of Ministers or their delegate, the Minister of University and Research, the Rector of the proposing university, and the Rectors of any other involved universities are still ongoing, as provided for by Article 14-bis, paragraph 3, of Legislative Decree No. 152 of November 6, 2021, in relation to the actual funding of 10 scholarships through the Territorial



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Agreements funds;

Acknowledging the unit cost for the three-year doctoral scholarships, amounting to €74.997,99;

Acknowledging also the three-year cost for each doctoral position without a scholarship, amounting to €9.881,84;

Considering that for the accreditation of the 41st doctoral cycle for the academic year 2025/2026, at least 4 scholarships are required for each Doctoral Program, with a total commitment for the entire three-year period amounting to €1.549.369,01;

Having heard the offices of the Financial Resources and Budget Area;

Having verified the financial coverage for the 2025 fiscal year, under the UPB ART_AMM budget chapter 102020101 of the University's Forecast Budget for 2025, and noting that the financial coverage for the fiscal years 2026 and 2027 will be allocated to the same UPB: ART_AMM budget chapter 102020101 of the University's Forecast Budget, respectively for 2026 and 2027;

Given the expression of interest, received with protocol number 19380 on June 17, 2025, from Posytron Engineering s.r.l., with Professor Mario Versaci as the contact person for UniRC, for co-financing an amount of €15.000 for three years, of which €5.000 per year, related to the doctoral program in Civil, Environmental, and Industrial Engineering, 41st cycle, and noting that the signing of the relevant agreement is underway;

Given the resolutions of the Academic Senate and the Board of Directors, taken in their respective meetings of June 25 and 26, 2025, whereby:

- the accreditation/renewal proposals for the academic year 2025/2026 of the Doctoral Programs for the 41st cycle with administrative headquarters at the University were approved;
- the financial plan for the activation of the 41st cycle of Doctoral Programs was approved, corresponding to the funding for a total of 20 funded positions and 5 non-funded positions, with a total cost of €1.549.369,02, partially co-financed for an amount of €15,000 by Posytron Engineering s.r.l. and €75.000 by the DICEAM Department from the project savings of Professors Malara, Filianoti, and Moraci for co-financing scholarships for the doctoral program in Civil, Environmental, and Industrial Engineering, 41st cycle;
- the Financial Resources and Budget Area was authorized to make any advance payment from the University's Forecast Budget 2025 for the doctoral scholarships, using Territorial Agreements funds, pending the signing of the Territorial Agreement pursuant to Article 14-bis, paragraph 3, of Legislative Decree No. 152 of November 6, 2021;
- the signing of the agreement with Posytron Engineering s.r.l. for the co-financing of €15.000 for a university scholarship within the Doctoral Program in Civil, Environmental, and Industrial Engineering, 41st cycle, was authorized;
- the issuance of the call for applications for the academic year 2025/2026 for a total of 25 positions, including 20 with scholarships and 5 without scholarships, within the Doctoral Programs, 41st cycle, was authorized;

Considering Directorial Decree No. 90 of June 27, 2025, received with protocol number 21037 on June 27, 2025, through which the Department DIIES fully funds an additional scholarship for the doctoral program in Information Engineering, 41st cycle, using resources from the Department of Excellence, as outlined in the same decree;

Considering that, pursuant to Ministerial Decree No. 226 of December 14, 2021, doctoral programs can only be activated following accreditation granted by the Ministry, based on a favorable opinion from ANVUR;

Recognizing the urgency dictated by the need to proceed quickly with the issuance of the call for public competitions for admission to the doctoral programs, 41st cycle, with administrative headquarters at the University of Mediterranean Studies of Reggio Calabria;

Decrees

Art. 1 – Call for Public Selection

1. The 41st cycle of doctoral programs, with administrative headquarters at the Mediterranean University of Reggio Calabria, is established, subject to the acquisition of a positive opinion from ANVUR regarding the accreditation proposals.
2. The activities of each year of the three-year doctoral programs generally begin on November 1st and end on October 31st of the following year.
3. With this call, public selections are announced for a total of **No. 26 positions (of which No. 21 are with scholarships and No. 5 without scholarships)**, at the Mediterranean University of Reggio Calabria, for admission to the 2025/2026 academic year for the following Doctoral Research Programs for the 41st cycle,



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as indicated in Annex A (comprising 5 sheets, one for each doctoral program), which forms an integral part of this call:

- **Architecture** No. 5 positions, of which No. 4 positions with scholarships and No. 1 position without scholarship:
 - No. 2 scholarships funded by the University's funds,
 - No. 2 scholarships funded by the Territorial Agreements, on the theme "*Climate Change Action: Renaturalization of Urban Space and Dialogue Among Cultures*".
 - **Law and Economics** No. 5 positions, of which No. 4 positions with scholarships and No. 1 position without scholarship:
 - No. 2 scholarships funded by the University's funds,
 - No. 2 scholarships funded by the Territorial Agreements, on the themes:
"*Decision Support Systems per la logistica e la Supply Chain*",
"*Intelligenza Artificiale (IA) e Modelli previsionali per l'analisi dei flussi turistici e gli impatti socio-economici sul territorio*".
 - **Civil, Environmental, and Industrial Engineering** No. 5 positions, of which No. 4 positions with scholarships (on the themes specified below) and No. 1 position without scholarship:
 - No. 2 scholarships funded by the University's funds,
 - No. 2 scholarships funded by the Territorial Agreements, on the theme "*Approfondimento di Ingegneria Civile, Ambientale ed Industriale*".
 - **Information Engineering:** No. 6 positions, of which No. 5 positions with scholarships (on the themes specified below) and No. 1 position without scholarship:
 - No. 2 scholarships funded by the University's funds,
 - No. 2 scholarships funded by the Territorial Agreements, on the theme "*ICT for Sustainability and Sustainable ICT*"
 - No. 1 scholarship funded by the Department of Excellence (DIIES).
 - **Agricultural, Food, and Forestry Sciences:** No. 5 positions, of which No. 4 positions with scholarships and No. 1 position without scholarship:
 - No. 2 scholarships funded by the University's funds,
 - No. 2 scholarships funded by the Territorial Agreements, on the theme "*Il Green Deal europeo per la sostenibilità dei Sistemi Agroalimentari*".
4. Pursuant to Ministerial Decree No. 226/2021, the activation of the doctoral programs listed above is subject to accreditation by the Ministry of University and Research, following a favorable opinion from ANVUR. Therefore, the assignment of the positions open for competition, as well as the awarding of scholarships, are contingent on ministerial approval for accreditation. Consequently, no claims may be made by candidates against the University.
 5. The allocation of scholarships funded by external entities (other organizations or companies) is subject to the completion of agreements between the University and the external entities involved.
 6. The number of positions indicated in this article may be increased according to the procedures outlined in the current University regulations, through subsequent provisions, following the availability of additional funding, in agreements with other Universities, public entities, or qualified private production structures.
 7. Any additional scholarships that may become available through research projects and/or funds from National Operational Programs, Regional Operational Programs, or other National and Regional Community Programs, and/or International Projects, and/or in agreements with other Universities, public or private entities, may be used to replace and/or supplement the scholarships funded by the University and/or to cover the positions without scholarships.



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8. The positions without scholarships as outlined in this call will be assigned to candidates who are appropriately ranked in the list, only if all the positions with scholarships are filled. Renouncing the scholarship will result in renouncing participation in the doctoral program.
9. All specific information regarding the doctoral programs, including the research topic associated with each position, is contained in the information sheet attached to this call for applications, which forms an integral and substantial part of this call (Annex A).
10. If, within the same doctoral program, there are both scholarships for research topics with specific requirements and open themes, as specified in Annex A of this call, candidates who have applied for one of the two types of scholarships (thematic or open) and are not placed in a suitable position on the respective ranking list, will automatically be considered for the allocation of scholarships for which they did not apply, whether thematic or open, if they have not already been assigned. To this end, the Admission Committee, before concluding its work, may allocate the available scholarship(s) considering the relevance of the research project originally submitted or the theme addressed in the written test, if applicable, the suitability of the candidate's curriculum, and the merit ranking.
11. The activities of the three-year Doctoral Programs referred to in this call for applications will begin on November 1, 2025, and end on October 31, 2028.
12. The publication referred to in Article 12, paragraph 1 of this call for applications, as well as any possible modifications, updates, or additions, shall have the value of official notification for all purposes.
13. The use of the masculine gender is not intended to be discriminatory but is meant as a neutral gender and is used solely for the sake of more immediate communication.
14. The submission of the admission application implies the candidate's acceptance of the rules contained in this call. Failure to comply with these rules will result in exclusion from the competition.
15. This call for applications is written in Italian and translated into English; in any case, the Italian version shall prevail.

Art. 2 - General Requirements for Admission

1. To apply for the positions listed in Annex A, individuals who meet the following conditions may submit their application for admission to the doctoral program, without age or citizenship restrictions: those who hold, by the deadline of the call, a degree as specified in the respective tables, awarded according to the regulations in force before the implementation of Ministerial Decree 509/1999, a Specialist/Master's Degree as specified for each program in Annex A, or an equivalent qualification (Master's Degree) obtained from foreign universities.
2. Applicants may also participate in the admission exams if they will obtain the required qualification for admission to the doctoral program by the enrollment deadline. If the selection process is successful, failure to meet this requirement will result in disqualification. In this case, admission to the competition will be provisional, and the candidate must submit a timely self-certification of the obtained qualification, otherwise, they will be excluded.
3. Applicants holding a foreign academic qualification, which has not already been declared equivalent to an Italian degree, must attach to their application all documents translated and legalized by the relevant Italian authorities, according to the regulations in force for the admission of foreign students to Italian university degree programs. These documents must enable the doctoral admission committee to assess the qualification's suitability in compliance with Italian law, the regulations of the country where the qualification was issued, and the treaties or international agreements on the recognition of qualifications for further study. Foreign professional qualifications do not grant access to the doctoral program.
4. Before the start of the courses, under penalty of exclusion from the doctoral program, the academic qualifications must be submitted to the Higher Education and Research Office, together with the application for enrollment. These qualifications must be translated, legalized in Italian, and accompanied by a "Declaration of Value" issued by the competent Italian authorities in the country where the qualification was obtained. Alternatively, the applicant may submit the Certificate of Comparability of the foreign academic qualification issued by the ENIC-NARIC center in Italy (CIMEA), which must contain all the



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necessary information for the evaluation of the qualification (<https://www.cimea.it/pagina-riconoscimentoaccademico>). For qualifications obtained in an EU country, the diploma supplement is sufficient.

5. Those who are already enrolled with a scholarship in another Doctoral Program are not eligible to participate in the selection exams for the scholarships outlined in this call. Those who are already enrolled without a scholarship in another Doctoral Program may also apply for this call, provided that, following the successful completion of the respective admission exam, they renounce the previous program and start from the first year.
6. Applicants who already hold a PhD may be admitted to a new Doctoral Program, but without a scholarship, after passing the admission exam.
7. All candidates are admitted to the selection process subject to the verification of the self-certified declarations in accordance with Presidential Decree No. 445/2000 and subsequent amendments and integrations. In the case of false declarations, without prejudice to the criminal responsibilities arising from such statements, the University, with a reasoned decision by the Rector, may exclude the candidate at any stage of the process, even after the start of the doctoral program. Furthermore, the University may conduct checks at any time regarding the truthfulness of the submitted declarations and request the presentation of the original documents. Therefore, at any time, the University may exclude candidates from the selection process for failure to meet the requirements set forth in this call.

Art. 3 – Application for Participation

1. The application for participation in the competition must be completed **exclusively ONLINE**, starting from the day following the publication of the call on the University's official website, and must be submitted by **12:00 PM (Italian time) on July 31, 2025**.
2. To complete the application, candidates must access the link <https://unirc.esse3.cineca.it> and:
 - i. If already in possession of SPID (Digital Identity), log in by selecting the “*login with SPID*” button in the top-left menu. If their name is not in the University's database, they must complete the registration with their personal details.
 - ii. If they do not have SPID, they must register by clicking the “*register*” button in the top-left menu and complete the registration by entering their personal details. After registration, the system will send login credentials to the email address provided during registration.
 - iii. Once registration is completed, log in with the credentials received by clicking the “*secretariat*” button in the top-left menu, then select “*admission test*” choose the doctoral program, and click on “*registration for admission test*”. Complete all fields related to the reservation and attach the requested documents (all files must be named following the format indicated on the platform, starting with the candidate's Surname-First Name, e.g., Rossi-Mario_Signed copy of identity document) based on the instructions in Annex A of this call for applications.
 - iv. Once the reservation is complete, candidates must pay the contribution for participation in the competition, amounting to €65.00, via the “PagoPA” procedure, available in the reserved area of ESSE3. No other forms of payment will be accepted, except for foreign candidates residing or domiciled outside of Italy, who may pay the €65.00 contribution (non-refundable) via bank transfer to the following IBAN: IT55V0200816303000401060714 [BIC/SWIFT UNCRITM1585], in the name of UNIRC at the UNICREDIT treasury in Reggio Calabria (Corso Garibaldi branch), indicating the reason for payment as “contribution for participation in the doctoral competition... (specify the course name)”.
3. To complete the application submitted on the ESSE3 platform, Italian candidates must download the PDF of the application for the competition, sign it, and send it by PEC (Certified Email) to the following address: amministrazione@pec.unirc.it, along with the receipt of the contribution payment mentioned in paragraph 2, letter d), and all the documentation required in Annex A of this call. The PEC submission (with the subject line containing the following information: Surname-FirstName_Doctoral Competition XLI cycle) must be made by the deadline set in this call.



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4. To complete the application submitted on the ESSE3 platform, foreign candidates must download the PDF of the application for the competition, sign it, and send it by email to the following address: protocollo@unirc.it, along with the receipt of the contribution payment mentioned in paragraph 2, letter d), and all the documentation required in Annex A of this call. The email submission (with the subject line containing the following information: Surname-FirstName_Doctoral Competition XLI cycle) must be made by the deadline set in this call.
5. Candidates from particularly poor and developing countries defined by Ministerial Decree No. 166 of March 2, 2025, are exempt from paying the contribution for the 2025/2026 academic year. For simplification, the following countries are listed: Afghanistan, Angola, Bangladesh, Benin, Burkina Faso, Burundi, Cambodia, Central African Republic, Chad, Comoros, Democratic People's Republic of Korea, Democratic Republic of the Congo, Djibouti, Eritrea, Ethiopia, Gambia, Guinea, Guinea-Bissau, Haiti, Kiribati, Lao People's Democratic Republic, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mozambique, Myanmar, Nepal, Niger, Rwanda, Sao Tome and Principe, Senegal, Sierra Leone, Solomon Islands, Somalia, South Sudan, Sudan, Syrian Arab Republic, Tanzania, Timor-Leste, Togo, Tuvalu, Uganda, Yemen, Zambia.
6. **Applications submitted through means other than those specified in this article will not be considered.**
7. Non-EU citizens must attach all their qualifications, translated into one of the European Union languages, to their application. Following the successful completion of the admission tests, they must provide the translated and legalized qualifications as specified in Article 2, paragraph 4, by the deadline for enrollment in the doctoral program.
8. Candidates with disabilities, pursuant to Law No. 104 of February 5, 1992, and those with specific learning disabilities (SLD) under Law No. 170 of October 8, 2010, may explicitly request, in relation to their disability or disorder, the necessary assistance, as well as any additional time required to take the entrance exams. In this regard, sensitive data will be kept and processed with the confidentiality required by Legislative Decree 196/03.
9. Candidates who wish to participate in more than one admission competition must submit multiple applications, provide the required documentation for each, and make a separate payment for each selected program.
10. Candidates are encouraged to complete their application well in advance of the deadline set in this call. It is the responsibility of the candidates to verify the correct completion of the procedure.

Art. 4 – Selection Tests

1. Admission to the Doctoral Programs is based on a public selection process and generally consists, unless otherwise specified in Annex A, of two tests: a written test and an oral test. These tests aim to assess the candidate's abilities and aptitude for scientific research in the areas related to the specific program.
2. The publication of the admission test schedule, as provided in Annex A, constitutes notification to the candidates. Any changes to the exam procedures and test schedule will be communicated to the candidates through the publication of a notice at the following link: <http://www.unirc.it/ricerca/dottorato-di-ricerca/bando-dottorato-di-ricerca-xli-ciclo>
No other forms of notification will be provided by the University.
3. To take the tests, candidates must present a valid identity document. Candidates who have applied for multiple admission competitions and whose tests overlap, even for one of the selection exams, are required to choose one of the selected programs. Failure to appear for the scheduled admission tests will be considered a withdrawal from the competition.
4. The Admission Committees for the doctoral program exams will be appointed by the Rector upon the expiration of this call, in compliance with the procedures established by the University's regulations on doctoral programs.
5. In the case of a written test, the Committee, in its preliminary session, will define the topics related to the educational tracks and scientific fields of the Doctoral Program and any specialized curricula, in order to assess the candidate's aptitude for research in the specific field. The list of candidates admitted to the oral



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test, signed by the President and the Secretary of the Committee, will be published at the following link: <http://www.unirc.it/ricerca/dottorato-di-ricerca/bando-dottorato-di-ricerca-xli-ciclo>.

6. In the case of evaluation of qualifications, projects, etc., the Committee, in its preliminary session, will establish the criteria and evaluation procedures to be formalized in the related minutes in order to assign the corresponding scores. The list of candidates admitted to the oral test will be published at the following link: <http://www.unirc.it/ricerca/dottorato-di-ricerca/bando-dottorato-di-ricerca-xli-ciclo>.
7. The oral test consists of a discussion on the topics related to each Doctoral Program and any specialized curricula, and also includes a test of knowledge in at least one foreign language, according to the guidelines in Annex A.
8. Based on the qualities assessed, the Committee will assign up to a maximum of 60 points for the written test or evaluation of qualifications. Candidates who score at least 42/60 in the written test or in the evaluation of qualifications will be admitted to the oral test. The oral test, which is public, will be considered passed only if the candidate achieves a score of at least 42/60.
9. At the end of each test, the Committee will prepare a list of the candidates examined, indicating the scores obtained by each candidate in the individual tests. If there are numerous candidates to be evaluated, the Committee may conclude its work the following day.
10. At the end of the examination, the evaluation Committee will prepare the general merit ranking based on the scores obtained by the candidates in the individual tests. In case of a tie, the younger candidate will be preferred. The general merit ranking, signed by the President and Secretary of the Committee, will be published at the following link: <http://www.unirc.it/ricerca/dottorato-di-ricerca/bando-dottorato-di-ricerca-xli-ciclo>.
11. In the case of positions reserved for foreign citizens, the Committee will prepare a separate ranking list.
12. Candidates residing abroad and those living more than 700 km from the location of the selection may request to conduct **the interview via videoconference**. This choice must be clearly indicated in the application, along with an email address where they can be contacted. This email address will be used to communicate the procedures and the platform chosen by the Committee for the interview. The candidate must be available on the specified day and time as established by the Committee. Failure to connect, unavailability of the candidate on the specified day or time, or failure to present a valid identity document will result in exclusion from the selection process. Pursuant to Rector's Decree No. 87 of March 15, 2020, each candidate, before the start of the test, must present a valid identity document to the Committee for identification purposes, and send a copy of the document to the email address of the Committee President, who will record the identification in the minutes.

Art. 5 – Admission to the Course

1. The Rector, by decree, checks the validity of the examination deeds and approves the merit list. Winners are declared the candidates on each list under condition of the requirements required for the admission to examinations and to the PhD course.
2. In the case of any renouncers by the winning candidates before the start of the course, an equivalent number of eligible candidates will be admitted according to the ranking order. If a candidate is placed in more than one ranking list, they must choose one PhD course through a written communication.
3. The winning Italian candidates are admitted to the PhD course upon acceptance, which must be expressed exclusively via certified email (PEC) to the following address: amministrazione@pec.unirc.it **within 7 days** from the date of publication of the competition results at the links mentioned in Article 12, paragraph 1 of this call.
4. The winning foreign candidates are admitted to the PhD course upon acceptance, which must be expressed exclusively via email to the following address: protocollo@unirc.it **within 7 days** from the date of publication of the competition results at the links mentioned in Article 12, paragraph 1 of this call.
5. If the deadline referred to in paragraphs 3 and 4 is not met, the successful candidates are considered to have withdrawn.



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Art. 6 – Course Enrollment

1. The Italian candidate admitted to the course, within a deadline of **October, 30, 2025**, will have to:
 - submit the enrollment application online by accessing the link <https://unirc.esse3.cineca.it> using the same credentials obtained during registration;
 - send the documentation indicated in paragraph 3 or 4 exclusively via certified email (PEC) to the following address: amministrazione@pec.unirc.it.
 2. The foreign candidate admitted to the course, within a deadline of **October, 30, 2025**, will have to:
 - submit the enrollment application online by accessing the link <https://unirc.esse3.cineca.it> using the same credentials obtained during registration;
 - send the documentation indicated in paragraph 3 or 4 exclusively via certified email (PEC) to the following address: protocollo@unirc.it.
 3. Applicants admitted to the PhD program with scholarship will have to:
 - a) log in with the credentials received during registration to the ESSE3 platform at <https://unirc.esse3.cineca.it> click on the “segreteria” button in the top-left menu, then select “immatricolazione”, and follow the instructions provided by the procedure.
 - b) once the enrolment has been completed, it is necessary to pay the Course enrolment fee of € 281.29 (first instalment of the fee of € 265.29 + virtual stamp duty of € 16.00) and the regional tax for the right to study in the minimum amount of € 130.00 using the “PagoPA” procedure available in the ESSE3 reserved area. Payment of the second instalment, the balance of the contribution, calculated according to the ISEE value classes provided for in Article 4, paragraph 1, Table B of the Study Manifesto, must be made by June. PhD students, through the ESSE3 platform, may, exclusively, authorise the University to acquire the ISEE directly from the INPS Data Bank, by activating the appropriate tick box, during enrolment or online registration. PhD students who do not activate the above function will automatically be placed in the highest income bracket. PhD students are required to check on the ESSE3 platform:
 - that the ISEE certificate bears the following wording: “si applica alle prestazioni agevolate per il diritto allo studio universitario” specifically in favour of the tax code of the person concerned
 - that it has the status of “CONFORME”.
 - c) (only for those who have declared to have obtained the qualification required for access by the date of enrolment) self-certification of degree pursuant to art. 76 of Presidential Decree no. 445 of 28.12.2000;
 - d) photocopy of one’s own social security number or health card;
 - e) tax card (see document “Dottorandi - scheda fiscale modalità pagamento borsa di studio” <https://www.unirc.it/ricerca/dottorato-di-ricerca/modulistica>;
 - f) a declaration pursuant to Article 76 of Presidential Decree No. 445 of 28.12.2000 containing the following information:
 - not to have already acquired the title of PhD or an equivalent title;
 - not to have already received a scholarship PhD, even partly;
 - to undertake to make payment of the second instalment by 30 June each year, which will be determined on the basis of the income brackets and relative university contributions in accordance with the University regulations on student contributions;
 - to attend full-time PhD research according to the regulations laid down by the Academic PhD Board;
 - to authorize the communication and diffusion of personal data;
 - not to combine the same scholarship with any other scholarships granted for any reason.
 - g) PDF receipt of enrolment in the [Iscrizione alla Gestione Separata INPS](#) as a semi-subordinate worker, for the payment of social security contributions deriving from the scholarship;
 - h) (only for non-EU citizens residing abroad) photocopy of the residence permit or residence card.
4. Applicants admitted to the PhD program without scholarship:



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- a) log in with the credentials received during registration to the ESSE3 platform at <https://unirc.esse3.cineca.it> click on the “segreteria” button in the top-left menu, then select “immatricolazione”, and follow the instructions provided by the procedure.
- b) Once the enrollment is completed, it is necessary to pay the regional fee for the right to study, amounting to at least € 130.00, using the “PagoPA” procedure available in the reserved area of ESSE3. Any difference in the regional fee must be paid by the end of June. PhD students, through the ESSE3 platform, may, exclusively, authorise the University to acquire the ISEE directly from the INPS Data Bank, by activating the appropriate tick box, during enrolment or online registration. PhD students who do not activate the above function will automatically be placed in the highest income bracket. PhD students are required to check on the ESSE3 platform:
 - that the ISEE certificate bears the following wording: “si applica alle prestazioni agevolate per il diritto allo studio universitario” specifically in favour of the tax code of the person concerned
 - that it has the status of “CONFORME”.
- c) self-certification of the degree in consideration of art. 76 of Presidential Decree no. 445 dated 28.12.2000 (only for those who have declared to obtain the required degree for admission by the date of put into service);
- d) photocopy (signed) of the identification document;
- e) photocopy of one’s own social security number or health card;
- f) (only for non-EU citizens resident abroad) a photocopy of the residence permit;
- g) declaration in consideration of art. 76 of Presidential Decree n. 445 of 28.12.2000, including with the following information:
 - h) o attend full-time PhD research according to the regulations laid down by the Academic PhD Board;
 - i) to not be / to be an employee at ..., and to attach the leave approval document;
 - j) to authorize the communication and dissemination of personal data.
5. According to paragraph 262 of art. 1 of L.11.12.2016, n. 232, students without scholarship are exempted from paying taxes or other contributions to the Università Mediterranea di Reggio Calabria, except for the payment of the aforementioned regional fee and stamp duty.
6. Those who have won a position 'with scholarship', accepted it, and renounced their PhD scholarship in order to take a paid leave of absence for PhD studies from their employers do not fall within the category of PhD students referred to in the previous paragraph. They are therefore required to pay the regular fees and contributions;
7. Failure to register within the time limit referred to in paragraph 1 shall result in disqualification and shall lead to the ranking being reversed in favour of the first successful candidate, according to the order of eligibility in the ranking list.

Art. 7 – Scholarships

1. The scholarships are awarded to the candidates placed on the list according to the order defined by the Commission. Among applicants of equal merit, preference will be given to the younger candidate.
2. PhD scholarships on funds or in any case not on Community funds cannot be cumulated with other scholarships for any reason, except with those granted by national or foreign institutions useful to integrate, possibly with stays abroad, the training or research activities of the doctoral candidates. For European scholarships, the provisions of European Union Regulation No. 1046 of 18.07.2018, Article 191 “Principle of prohibition of accumulation and prohibition of double funding” apply. Therefore, doctoral scholarships are not compatible with any other scholarships granted for any reason.
3. The recipients of scholarship are not allowed to have any other income from any other source that can lead to the loss of unemployment or inactivity, as defined in art. 4 paragraph a) of Legislative Decree n. 181 of 21.04.2000 as amended by Legislative Decree no. 297 of 19.12.2002, relating to the definition of the threshold of annual income which has to be maintained throughout the duration of the scholarship, under penalty of forfeiture and refund of the installments received.
4. PhD fellowships are incompatible, under penalty of forfeiture of the enjoyment of the same and with the obligation to return the payments received, with:



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- a) employees, including temporary ones, except for the possibility that the employee is placed by the employer on leave without pay;
 - b) industry and commerce activities;
 - c) contracts with the Università degli Studi Mediterranea di Reggio Calabria for whatever reason except the ones related to tutorial activities;
 - d) any other activity that requires the opening of a VAT.
5. The scholarships funded by other Universities, public or private, can be bound to the performance of specific research programs, if specified in the agreement, and the failure to comply with the provisions in the agreement results in the loss of the benefit of it and the consequent return of all the installments of the scholarship received.
 6. The disbursement of the scholarship is linked to the periods of activity and attendance of research studies actually rendered. Payment of the grant is made monthly in arrears. This means it is paid in the month following the completed month of attendance.
 7. The scholarships have a total duration of at least three years and are renewed annually, provided that the PhD student has completed the program of activities planned for the previous year and verified according to the procedures established by the Academic PhD Board, without prejudice to the obligation to disburse the scholarship following the passing of the verification. If the PhD student is not positively assessed for the purpose of renewing the scholarship, or renouncing it, the unused amount remains available to the University for the same purposes.
 8. The annual amount of the scholarship for attending PhD courses is restated, in effect by Ministerial Decree no. 247 of 23 February 2022, in € 16,243.00 gross of social security charges to be paid by the recipient. This amount is increased to the maximum extent in place by 50% for a total period not exceeding 12 months, if provided for in the admission notice and if the PhD student is authorized by the Academic Board to carry out research activities abroad.
 9. Each PhD student is assured, in addition to the scholarship and within the financial resources existing in the budget, a budget for the research activity in Italy and abroad, adequate for the type of PhD program and in any case of an amount not less than 10% of the amount of the scholarship itself.
 10. The one who has already received a scholarship for a PhD course, even for a single year or part of it, is not eligible for a second time.

Art. 8 – Obligations

1. Admission to the PhD course entails an exclusive, full-time commitment. Civil servants admitted to a doctoral course shall benefit, for the normal duration of the course, from the leave of absence provided for by collective bargaining or, if they are employees under public law, from an extraordinary leave of absence for study purposes, compatibly with the needs of the administration, pursuant to Article 2 of Law no. 476 of 13 August 1984, with or without allowance and unless explicitly waived, only if they are enrolled for the first time in a PhD course, regardless of the disciplinary field.
2. PhD students, with or without a scholarship, are obliged to attend, according to the terms and timing established by the Board of teachers, all the teaching and training activities provided by the programme of the Doctoral Course for its full duration, accruing within this period all the credits provided by the training plan prepared by the Board. The PhD student must not be simultaneously enrolled in another PhD Programme.
3. At the end of each year of the Course, PhD students are required to submit a detailed report on the training and research activities carried out, on the basis of which the Academic PhD Board will recognize the actual acquisition of credits envisaged by the training plan and will express an evaluation of merit, arranging for admission to the following year.
4. At the end the third year of the Course, PhD students are required to submit a detailed report on the training and research activities carried out over the three-year period and the draft of the thesis, on the basis of which the Academic Board recognizes the actual acquisition of the expected credits. from the training plan and expresses an evaluation of merit, arranging the submission of the thesis to the Evaluators.
5. The insufficient number of credits acquired and / or the negative evaluation leads to the forfeiture of the PhD program with loss of any scholarship and repayment of the installments received in the current year.



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6. All PhD students receiving a scholarship for each year of attendance are required to pay the relative contributions as specified below:
- By November 30 of each year of Course: € 281,29 (first instalment of € 265,29 + virtual stamp duty of € 16,00) + regional tax for university education;
 - By June 30 of each year of Course: second instalment fee that will be determined based on the ISEE (Equivalent Economic Situation Indicator) for your own Tax Code, as stated on art. 4 paragraph 1 Tab. B of the University Regulations for Student Contribution. PhD students are responsible for obtaining the ISEE, activating the checkbox that authorizes the University to retrieve the relevant data directly from the INPS Database, on the ESSE3 platform during the enrollment or online registration phase. PhD candidates who do not activate the checkbox will be automatically placed in the highest bracket. The PhD candidate is required to verify on the ESSE3 platform that the ISEE certification is marked as "CONFORME" and in the specific format intended for Universities, stating "applies to benefits for university education rights" for their Tax Code.

Art. 9 - Industrial property rights

1. Pursuant to art. 65 of the Industrial Property Code, the doctoral student who, within the Doctoral Course, has achieved an inventive idea, is required to communicate the object of the invention to the University which, within six months of receipt of the communication, must expressly express whether or not they are interested in filing the patent application. In the event of inertia or lack of interest on the part of the University within the established deadlines, the PhD student will be able to independently file the patent application in his or her own name.
2. Without prejudice to the right of the PhD student inventor to be recognized as the author, the proceeds deriving from the exploitation of patentable results, patents and know-how, deducting the charges and expenses incurred for the valorisation and legal protection of the inventions object of economic exploitation, will be distributed in accordance with the provisions of the *University Regulations regarding patents and technological transfer* (D.R.n. 151 of 05.09.2008):
 - 50% to the University;
 - 50% in favor of the inventor.
3. In the case of funded research, the rights deriving from the invention created in the execution of research and study activities, financed, in whole or in part, by third parties and/or companies, will be divided between the University and the financing entity to the extent provided for by the relevant agreements.
4. For anything not provided, please refer in full to the rules set out in the *University Regulations on patents and technology transfer and the current legislation on industrial property*.

Art. 10 – Doctorate Degree - Qualification

1. The title of Doctor of Research, abbreviated with the words: “Dott. Ric.” or “Ph.D.”, is released as a result of the positive evaluation of a research thesis that contributes to the advancement of knowledge or methodologies in the field of investigation chosen.
2. To be admitted to the final examination for the award of degree of Doctor of Research, the PhD student must have earned the credits provided by *the training plan* prepared by the Academic Board of the PhD.
3. The PhD thesis, accompanied by a summary in Italian and English, is written in Italian or English or in another language by authority received of the Academic Board. The thesis, with a report on the activities of the student in the course of the PhD and eventual publications, shall be assessed by at least two highly qualified teachers, including those belonging to foreign institutions in the cases under art. 16 of the Rules of University's doctoral research, external to the parties that contributed to the release of the title of PhD, hereinafter referred to as Evaluators.
4. The public discussion takes place before a Commission whose composition is defined by Regulations, within the six months immediately following the expiry date of the PhD course. At the end of the discussion, the thesis, with a reasoned written collegial judgment, is approved or rejected. The Commission, by unanimous



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vote, has the right to assign praises in the presence of results of particular scientific importance. The title of Doctor of Research is conferred by the Rector and upon a successful completion of the final exam.

5. The original parchment will be issued by the University *Mediterranea* of Reggio Calabria in a single copy, upon request of the interested party.

Art. 11 – Treatment of personal data

1. The University *Mediterranea* of Reggio Calabria in the accomplishment of Decree n° 196/2003 “Code concerning the protection of personal data”, agrees to use the personal data supplied by the candidate to carry out the examination procedures and for institutional purposes. Participation in the competition implies the principles set out in the Law concerning tacit consent to the publication of the personal data of the candidates on the website of the University *Mediterranea* of Reggio Calabria.

Art. 12 - Advertising

1. This notice and all related administrative measures will be published on [“https://www.unirc.it/ateneo/albo-onlie”](https://www.unirc.it/ateneo/albo-onlie) of the University *Mediterranea* of Reggio Calabria. on the section [“https://unirc.portaleamministrazionetrasparente.it”](https://unirc.portaleamministrazionetrasparente.it).
2. This notice is also published on the institutional website of the European Union [“Euraxess”](#) and on that of the [Ministero](#).

The Rector
Prof. Giuseppe Zimbalatti

La Responsabile del Settore
Alta Formazione alla Ricerca
Angela Crucitti

La Responsabile di Area
Dott.ssa Rosa Paola Arcà

Il Direttore Generale
Ing. Pietro Foti



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Annex A

FORM N. 1

Name of PhD course	Architecture
Cycle	XLI
Curricula	1. Architecture: Theory and Design 2. Urban Regeneration
Duration	3 years
Coordinator	Professor Concetta Fallanca
Department	Architettura & Design
PHD Positions	n. 5 PhD positions: 4 with scholarship; 1 without scholarship
Scholarships	<ul style="list-style-type: none"> n. 2 scholarships funded by the University Mediterranea of Reggio Calabria; n. 2 scholarships funded by the "Patti Territoriali" on the theme "<i>Climate Change Action: Renaturalization of Urban Space and Dialogue Among Cultures</i>".
Scholarship topics to be indicated in Annex B	<p>- scholarship funded by the University Mediterranea of Reggio Calabria and position without scholarship (free topic);</p> <p>- scholarships funded through the Patti Territoriali (Topic: Innovative methods and tools for the valorization of cultural heritage and the transformation of the built environment in climate change scenarios)</p>
Admission	<p>Admission will be based on:</p> <p>a) Evaluation of research project and qualifications (max 60 points)</p> <p>b) Oral exam and assessment of knowledge of the English language (max 60 points)</p> <p>a) Evaluation of research project and qualifications: it is aimed at identifying the preparation and motivation for participation in the doctoral course and will be deduced from the following documents and qualifications:</p> <ul style="list-style-type: none"> Curriculum Vitae highlighting the educational path, degree grade and any relevant qualifications held (max 20 points); A research project in Italian or in English (annex B) focusing on the topic of the scholarship for which candidates intended to compete (see scholarship topics). The project should not exceed 2.000 words, including an abstract of no more than 150 words, and should be divided into the following parts: 1. Objectives and purposes of the research; 2. State of the art of the scientific debate relating to the proposed field of study and any interdisciplinary aspects; 3. Research methodology; 4. Expected results (max 40 points). <p>The oral exam is accessed with a score of at least 42/60 in the evaluation of the research project and curriculum.</p> <p>b) Oral exam and assessment of knowledge of the English language</p> <ul style="list-style-type: none"> Discussion of the project and assessment of the candidate's aptitude for scientific research. Assessment of knowledge of the English language. Foreign candidates must demonstrate that they have at least an elementary knowledge of the Italian language. The final ranking is accessed with a score of at least 42/60.



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<p>Admission schedule</p>	<p>Evaluation of the research project and qualifications: <u>September 2, 2025</u> The ranking of candidates admitted to the oral exam will be published by <u>September 3, 2025</u>.</p> <p>Oral and language exam on <u>September 4, 2025, at 10:00</u>, at the Architettura & Design Department of the Mediterranean University of Reggio Calabria located in Via dell'Università, 25 - 89124 Reggio Calabria.</p> <p>Candidates residing abroad and those residing more than 700 km from the selection site can request to have the interview via videoconference. This choice must be clearly indicated in the application form specifying an e-mail address to be contacted. This address will be used to communicate the methods and platform chosen by the commission for carrying out the interview.</p> <p>Any changes to the exam schedule will be published on the website at the following link: http://www.unirc.it/ricerca/dottorato-di-ricerca/bando-dottorato-di-ricerca-xli-ciclo No other forms of notification will be activated by this University.</p>
<p>Language test</p>	<p>English</p>
<p>Educational Qualification required</p>	<p>For Italian graduates: Laurea magistrale, Laurea specialistica, or Laurea (vecchio ordinamento). For foreign graduates: Master degree level.</p>
<p>Period of training abroad</p>	<p>For all types of scholarships provide an optional period of study and research abroad up to a maximum of twelve (12) months. The position without scholarship provide an optional period of study and research abroad up to a maximum of six (6) months.</p>
<p>Educational description</p>	<p>The PhD course in “Architecture” is characterized by a strong international dimension that aims to increase the international projection of students.</p> <p>The project aims to provide third-level post-graduate training capable of conferring a title that certifies that the PhD course is capable of carrying out personal, original and high-level scientific research. The PhD Program aims to offer highly structured and personalized training to facilitate the scientific and professional growth of PhDs in both the academic and professional sectors. Training in advanced research is consolidated through theoretical and experimental methods aimed at addressing cutting-edge research topics for the advancement of individual and collective skills. The scientific project prepares PhD students to face contemporary global challenges by providing prestigious international exchange opportunities. To implement this project, the PhD course in “Architecture” integrates basic and applied research methodology with interdisciplinary and intersectoral training, combining the fields of architecture, urban planning, restoration, technology, structures, economic valuation, but also of history, representation and aesthetics, without ever forgetting that the nature of Architecture invests both the human sciences and the hard sciences.</p> <p>The research activities are supported by a strong national and international inter- university network, with the aim of increasing the participation and learning capacity of doctoral students and teachers in a multiple scenario made up of innovation, internationalization and industrialization.</p> <p>The title of PhD is conferred after having carried out three-year training and research activities and having successfully defended the curricular Doctoral Thesis. The ownership of the Research Doctorate clarifies, together with the specific skills cultural backgrounds of the disciplinary areas involved, the scope of operation of the same.</p>
<p>Training Objectives</p>	<p>The PhD course in “Architecture” responds to the growing demand for highly qualified researchers capable of competing at an international level in the formation of knowledge, in order to grasp the productivity of the interrelationships between basic skills and experimentation linked to the needs of potential and future users. The strong interdisciplinary characterization of Architecture defines complex research areas in which the autonomous, critical and highly specialized research capacity requires dialogue between skills and knowledge. Over the three years, the course is divided into areas of collective training and individual learning and research processes for each PhD student.</p> <p>The objectives are included in three areas:</p> <ol style="list-style-type: none"> 1. Disciplinary contents of the PhD course: <ul style="list-style-type: none"> - Updated and in-depth knowledge of the general issues that characterize the PhD course in Architecture; - The in-depth study of the different themes of the two curricula in which the PhD course is subdivided (the



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	<p>area of the relationship between theories and project, and the area of urban regeneration);</p> <ul style="list-style-type: none"> - The in-depth study of issues regard the international debate in the architectural and urban fields; - Specific actions regard the topics with possible repercussions on the territory. <p>2. Actions relating higher education:</p> <ul style="list-style-type: none"> - Collaborations with internationally recognized scholars for conferences, lectures and seminars on general or trend issue; - Stages in research and training institutions, government and land management structures, design and production companies in the field of construction and infrastructure, cultural and creative businesses related to cultural heritage; <p>3. Methodological training on doctoral research:</p> <ul style="list-style-type: none"> - to acquire writing skills in an academic scientific context; - to acquire bibliographic sources and apparatuses skills; - to acquire methodological control useful to organize the issues in question; - the capacity to communicate the scientific results achieved through appropriate forms and to organize reports and lectures; - the capacity, in academic context, to deepen communication regarding the issues of design disciplines; - the capacity to carry out analytical-cognitive studies in field of investigations; - the capacity to draft research hypotheses for a PhD course in Architecture. <p>In order to achieve these objectives and to provide each doctoral student with the opportunity to carry out their activities in the best possible way, the PhD course in Architecture is organized on the basis of the educational credit system (CFU). Successful attendance at the PhD programme corresponds to 180 total CFU which are usually divided into 60 CFU per year.</p> <p>The CFU, listed more precisely in the section relating to each year of the course, can be traced back to the following categories:</p> <ul style="list-style-type: none"> - training (lectures, conferences, seminars and workshops); - the drafting of the final papers required by the seminars or workshops; - meetings and discussions with the Board of Teachers; - study trips, stages and conferences; <p>the publication of research resultates in volumes or scientific journals; - internship at Italian and foreign research structures.</p>
<p>Expected employment and professional opportunities</p>	<p>The international PhD course in Architecture intends to train researchers with a high scientific profile, theoretical-cultural and experimental-innovative preparation, aimed at certifying:</p> <ul style="list-style-type: none"> - skills that can be spent in Academic institutions and in Italian and foreign research institutes; - strategic skills, regard to the needs of local territory, also recognized outside the Academy System. <p>The strong international significance of the two curricula: “Architecture, Theory and Design” and “Urban Regeneration”, allows PhD students to acquire wide relational skills in a global context. The activities are oriented to the multiscale design of architecture, landscape and the city, intersectoral and interdisciplinary, theoretical analysis, the study of materials, soft-computing and experimentation of the Resilience Building according to the approaches of the Evolutionary Economy and Transition Management strategies.</p> <p>In the public sphere, researchers can find the right placement in institutions and agencies for the government of cities and the territory for building and urban design, territorial and urban planning, energy, environmental sustainability, protection and safety of territories, static security and the enhancement of Cultural Heritage. In the private sector they can find a place in the technical-professional and entrepreneurial world in an international dimension for planning and governance activities.</p>



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<p>ARCHITECTURE: THEORY AND DESIGN</p>	<p>The activity conducted within the “Architecture: Theory and Design” curriculum aimed at training scholars who are able to operate at different levels of scientific research: from the theoretical dimension to the operational application of the knowledge achieved and vice versa.</p> <p>In this context, design experimentation, which is a synthetic expression of different knowledge, takes on a decisive importance both as regards the tools and techniques, and as regards the advancement of disciplinary knowledge. The research themes revolve around the most advanced architectural paradigms, including: - Architectural space: structure and composition - Housing models - Representation of the built heritage - Energy efficiency - Theory and history of architecture - Building and structural requalification - Safety assessment of buildings - Theoretical and operational aspects of the architectural project. The Curriculum combines the contributions of the various disciplines, which are integrated into a complex vision.</p> <p>The name “Architecture: Theory and design” identifies the general framework in which the training takes advantage of the different knowledge in the fields of theories and design that identify and support architecture at different scales, in its multi-dimensions both material and immaterial. The researches are distinguished by being both theoretical and , in which theoretical experimentation is flanked by both case studies of in-depth and systematic conceptual hypotheses, and modeling determinations elaborated by the virtuous reciprocity between application and declination in specific real areas</p>
<p>URBAN REGENERATION</p>	<p>The Curriculum in "Urban Regeneration" aims to broaden the knowledge and skills of PhD students on the concepts of innovative approaches to urban regeneration, increasing the potential of place-based innovation towards local economic development. The mission is to encourage in-depth research and promote critical and theoretical reflection in accordance with the following research themes: - Urban planning and policy; -Urban and territorial planning; - Urban landscape; - Urban regeneration; - Economic and social development; - Economic policy and planning; - Enhancement of cultural heritage and historical centres; - Restoration of the integrity of the places, the city and the territory; - Ecological transition and climate change; - Local entrepreneurial processes. The resulting research results aim to seek new methodologies to deliver and implement integrated urban policy approaches and local economic development strategies aligned with the integrated sustainable urban development paradigm.</p>
<p>Documents to be attached to the application form</p>	<p>Candidates must upload the following documentation on the Esse3 platform when submitting their application:</p> <p>a) A research project in Italian or in English (annex B) focusing on the topic of the scholarship for which candidates intended to compete (see scholarship topics). The project should not exceed 2.000 words, including an abstract of no more than 150 words, and should be divided into the following parts: 1.Objectives and purposes of the research; 2. State of the art of the scientific debate relating to the proposed field of study and any interdisciplinary aspects; 3. Research methodology; 4. Expected results</p> <p>b) <i>Curriculum Vitae</i> European format</p> <p>c) Self-certification of the University degree (Under article 46 of Presidential Decree no. 445/00)</p> <p>d) Copy of the identity document.</p> <p>ONLY FOR NON-EU CANDIDATES:</p> <p>The foreign qualification may be declared admissible by the Evaluation Board, solely for the purposes of admission to the selection procedure. The degree certificate must contain the study plan and the exams taken with the relative marks. Additional documents deemed useful for the purpose of assessing the suitability of the qualification may be attached. If the certificate and other documents are drawn up in a language other than Italian or English, it must be translated and legalized by the Italian Embassy or Consulate in the country of origin.</p>



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FORM N. 2

PhD programme	Law and Economics
Cycle	XLI
Curricula	<ol style="list-style-type: none"> 1. Private Law (IUS/01 - private law; IUS/03 - agricultural law; IUS/04 - commercial law; IUS/07 - labor law; IUS/18 - Roman law) 2. Public Law (IUS/08 - constitutional law; IUS/10 - administrative law; IUS/11 - canon and ecclesiastical law; IUS/13 - international law; IUS/14 - European Union law; IUS/16 - law criminal procedure; IUS/17 - criminal law; IUS/18 - Roman law; 3. Economics and quantitative methods (SECS/P01 - political economy; SEC/P02 - economic policy; SECS/P03 - financial sciences; SECS/P07 - business economics; SECS/P12 - economic history; SECS/S06 - mathematical methods of economics and actuarial and financial sciences)
Duration	3 years
Coordinator	Prof. Giuseppe Tropea
Department	Giurisprudenza, Economia e Scienze Umane (DIGIES)
PhD positions	n. 5 places of which n. 4 places with bag and n. 1 place without scholarship
Scholarships	<ul style="list-style-type: none"> • n. 2 scholarships funded by the University Mediterranea of Reggio Calabria; • n. 2 scholarships funded by the "Patti Territoriali" on the themes: "Decision Support Systems per la logistica e la Supply Chain", "Intelligenza Artificiale (IA) e Modelli previsionali per l'analisi dei flussi turistici e gli impatti socio-economici sul territorio".
Topic of the scholarships to be indicated in annex B	<ul style="list-style-type: none"> - scholarship funded by the University Mediterranea of Reggio Calabria and position without scholarship, on free topic. - scholarships funded through the Patti Territoriali on the topic "Artificial intelligence and applied mathematical methods".
Admission procedures	<p>Admission will be based on:</p> <ol style="list-style-type: none"> a) A written test (max 60 points) b) Oral and language test (max 60 points) <p>a) The written test (max 60 points) consists of the elaboration of a topic, chosen by the candidate, on one of the three curricula (Private Law/Public Law/Economics and Quantitative Methods) as better detailed in the "Brief descriptions" of the three curricula in this sheet.</p> <p>b) Oral and language test (max 60 points) consists of the discussion of the paper and the evaluation of the overall preparation in the reference area and the motivation of the candidate.</p>
Exam diary	<p>The written test will be held on September 11th, 2025 at 9:30 at the DiGiES Department, of the Mediterranean University of Reggio Calabria, located in Via dell'Università, 25 ex Salita Melissari – 89124 Reggio Calabria.</p> <p>The ranking of those admitted to the oral test will be published by September 19th, 2025</p> <p>Oral and language test: will be held on September 22nd, 2025 at 9:30, at the DiGiES Department, of the Mediterranean University of Reggio Calabria, located in Via dell'Università, 25 ex Salita Melissari – 89124 Reggio Calabria.</p>



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	<p>Candidates residing abroad and those residing more than 700 km from the selection location can request to carry out the interview via videoconference. This choice must be clearly indicated in the application form by specifying an e-mail address at which you can be contacted. This address will be used to communicate the methods and platform chosen by the commission to carry out the interview.</p> <p>Any changes to the test calendar will be published on the website at the following link: http://www.unirc.it/ricerca/dottorato-di-ricerca/bando-dottorato-di-ricerca-xli-ciclo</p> <p>There will be no other form of notice</p>
Language test	English, Spanish (candidate's choice)
Required qualification	<p>LMG/01 Class of master's degrees in law LM-56 Economic sciences LM-63 Public administration sciences LM-76 Economic sciences for the environment and culture LM-77 Economic and business sciences LM/SC-GIUR Legal Sciences 22/S (specialists in law) 64/S (specialists in economic sciences) 71/S (specialists in public administration sciences) 84/S (specialists in economic and business sciences)</p>
Training period abroad and in enterprises	<p>For all types of scholarships provide an optional period of study and research abroad up to a maximum of twelve (12) months.</p> <p>The position without scholarship provide an optional period of study and research abroad up to a maximum of six (6) months.</p>
Description of the project	<p>The international doctorate in "Law and Economics", due to its interdisciplinary nature, aims to allow the in-depth study of themes belonging to the respective disciplines included in the basic scientific disciplinary sectors. The research topics of the course are aimed at deepening legal, economic and business knowledge, also according to the comparative methodology and with a view to European harmonisation, with reference to the regulatory systems, theories and practices of the legal discipline of business and Work.</p> <p>The co-financed grant will tend to promote cultural, educational and scientific in-depth initiatives, including those of a multidisciplinary nature, aimed at studying the possible declinations of the concept of "sustainability" on the regulation of intersubjective relationships also in relation to the processes of digitalisation of contractual activities and business. Particular attention will be paid to identifying the main theoretical and operational problems linked to the use of digital in the public sector, to issues of national relevance such as sustainability, technological modernisation, energy reconversion, rationalization of healthcare spending with digitalisation and efficiency of systems, new tax ratio - taxpayer.</p> <p>The course aims to train scholars who are not only able to "read" the regulatory and economic reality, but also equipped to conduct a critical-reconstructive investigation of it. In this sense, internal specializations must not constitute disciplinary "fences", as training that is as interdisciplinary as possible is necessary, capable of grasping today's complexities and transitions, from the ecological to the digital, without forgetting the fundamental contribution of classical reconstructions in individual sectors.</p>
Educational objectives	<p>The dual approach of legal and economic analysis allows for the creation of effective interdisciplinarity and promotes the training of professional figures suitable for teaching and research. As regards co-financed scholarships, as there is a tradition at an international level, especially in common law countries, in the economic analysis of law (Economic Analysis of Law) which constitutes one of the bases of the training course aimed at the acquisition of technical-scientific skills, it is it will have to guarantee a vision of the economic phenomenon as a whole with reference to the very production of the rules that govern "the market", aiming to achieve the efficiency and effectiveness of administrative action. To be admitted to the final exam, PhD students must conduct study and research activities full-time for at least three years.</p>



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	<p>As part of the study activities, specific courses organized by the Teaching Board or by the Doctoral School of the Mediterranean University or courses, conferences and seminars organized by other institutions must be attended for at least 120 hours in total over the three-year period with prior authorization from the Board of Directors. Teachers.</p> <p>At the beginning of the Course, the Teaching Committee assigns each doctoral student a tutor to supervise and assist the student throughout the entire course of study. The tutor must belong to the teaching body. Every year, each student, in agreement with their tutor, presents a training plan which summarizes the courses that the student intends to follow and the other activities envisaged in compliance with current regulations.</p> <p>As a rule, the interdisciplinary and methodological courses organized by the Doctoral School of the Mediterranean University of Reggio Calabria are compulsory during the first and second year of the course; each doctoral student, in agreement with their tutor, will instead be able to choose, up to within the expected number of hours, which of the courses proposed by the Teaching Board to attend. The training plan is approved by the teaching body and can be amended during the year, at the student's request and with the approval of the board, for proven needs. As part of the Doctorate, national and international mobility will be stimulated so that students can conduct experiences in laboratories and research centers of excellence in Italy and abroad.</p>
<p>Job Opportunities</p>	<p>The doctorate intends, through a multidisciplinary preparation open to free and reasoned criticism, to introduce young graduates to scientific research, as a fundamental and essential moment for the possible subsequent teaching and/or research activity. Furthermore, it aims to provide the means for the acquisition of professional and/or managerial skills in private enterprise and public administrations, also integrating, for improvement, with the contemporary masters for public administrations organized by the Department.</p> <p>The aim of the course is also to give the young scholar an organic and coherent research method, which is able to make the free thought and creativity of the doctoral student interact harmoniously with the precious help of artificial intelligence, but without the latter mortifying or supplanting the former.</p> <p>It also aims to contribute to the training of new professional figures with specific skills in the areas of civil and public law interest, which can lead to a reasonable implementation of the principles of equal opportunities and non-discrimination, especially in cases involving the needs of protection of the elderly, people with disabilities, and in any case of fragile people.</p> <p>It also aims to build new professional figures capable of analyzing and evaluating public policies related to issues of national relevance such as sustainability, technological modernization, energy conversion, digitalization of the Public Administration.</p> <p>After completing the doctorate, you will have a higher qualification that is also useful for those who decide to undertake the classic liberal professions (lawyer, notary, accountant) or professions such as the judiciary, because never before has it been necessary to read the complexity with the lenses of research and in-depth analysis that a course such as the doctorate can provide and/or help to refine, in order to grasp in an overall vision the legal and economic problems that arise. To this end, it will also be necessary to work intensely on perfecting the "writing" (legal and economic) of the doctoral student, not always adequate at the end of the degree course.</p>
<p>Short description of the curriculum: DIRITTO PRIVATO</p>	<p>The private law curriculum is aimed at promoting cultural, educational and scientific initiatives, including multidisciplinary ones, aimed at deepening the possible multiple declinations of the concept of "sustainability" on the regulation of intersubjective relationships, also with reference to the digitalization processes of contractual and business activities. Particular attention will be paid to the strengthening of skills in the sectors of civil law interest that interfere with the implementation of the principles of equal opportunities and non-discrimination, with the needs of protection of fragile and more exposed people (consumers, disabled people, migrants, elderly people, etc.). This does not exclude, however, the deepening of other issues, even more classic ones, especially if they can have repercussions on the level of the main systematic nodes of contemporaneity</p>
<p>Short description of the curriculum: DIRITTO PUBBLICO</p>	<p>The curriculum is aimed, first but not exclusively, at identifying the main theoretical and operational problems related to the use of digital in the public sector, in order to identify the most suitable system of digitalization of the Public Administration to meet the needs of efficiency and effectiveness of public bodies while respecting the fundamental freedoms of the person. More generally, this objective requires the in-depth study of further issues, even more classical and procedural, especially if they present evident repercussions on the level of the main systematic nodes of contemporaneity, starting from the various forms of transition (ecological, digital, etc.), passing through the different profiles of regulation of the economy, up to the diversified needs of protection of the most fragile subjects (migrants, prisoners, etc.), as well as the study of the impact on the legal system of ongoing conflicts.</p>



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<p>Short description of the curriculum: ECONOMIA METODI QUANTITATIVI</p>	<p>This curriculum deals in particular with verifying theoretical models of decision making, behavioral economics, business economics and analysis and evaluation of public policies relating to issues of national relevance such as sustainability, technological modernization, energy reconversion, rationalization of healthcare spending, digitalization and efficiency of the Public Administration, new tax-taxpayer relationship. Of fundamental importance will be the empirical verification through adequate econometric models applied to the relevant databases of the results obtained from the economic policies introduced. The topics specific to the Economics and Quantitative Methods curriculum will be associated with courses aimed at strengthening knowledge of explainable artificial intelligence, machine learning and deep learning with the related models and methods also in use in the industrial and professional fields, always considered the scientific substrate specific to the reference field.</p>
<p>Documents to be attached to the application form</p>	<p>The application must be submitted through the Esse3 platform, attaching the following documentation:</p> <ul style="list-style-type: none"> - self-certification of the degree diploma pursuant to the Presidential Decree 445 of 28 December 2000; - photocopy of a valid identification document. <p>ONLY FOR NON-EUROPEAN CANDIDATES: The suitability of the qualification obtained from foreign universities can be ascertained, solely for the purposes of admission to the selection, by the judging commission. The degree certificate presented must include the study plan and the exams taken with the relevant grade. Additional documents deemed useful for assessing the suitability of the qualification may be attached. If the certificate and additional documents are drawn up in a language other than Italian or English, it must be translated and legalized by the Italian Embassy or Consulate in the country of origin.</p>



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FORM N. 3

Name of PhD course	Civil, Environmental and Industrial Engineering
Cycle	XLI
Curricula	<ol style="list-style-type: none"> 1. Energy production from renewable sources 2. Natural, environmental and anthropogenic risks 3. Sustainable and resilient infrastructures and structures 4. Processes, technologies and materials for the ecological transition
Duration	3 years
Coordinator	Prof.ssa Matilde Pietrafesa
Department	Civil, Energy, Environment and Materials Engineering (DICEAM)
Places	n. 5 places, of which n. 4 positions with scholarship and n. 1 position without scholarship
Scholarships	<ul style="list-style-type: none"> - n. 2 scholarships on University funds, of which n. 1 co-financed on funds from the DICEAM Department and n. 1 co-financed by the Posytron Engineering s.r.l. Company; - n. 2 scholarships on funds provided by the Patti Territoriali on the theme “<i>Approfondimento di Ingegneria Civile, Ambientale ed Industriale</i>”, both co-financed on funds from the DICEAM Department
Scholarship topics to be indicated in Annex B	<ul style="list-style-type: none"> - n. 2 scholarships on University funds, as indicated below: scholarship n. 1 on the topic: “<i>Use of new methods and technologies in geotechnical works</i>” scholarship n. 2 on the topic: “<i>Advanced Applications of Artificial Intelligence in Mobility as a Service: Innovation, Sustainability and Integration with Smart Cities</i>” - n. 2 scholarships on funds provided by the Patti Territoriali, as indicated below: scholarship n. 3 on the topic: “<i>Engineering of innovative materials for environmental applications</i>” scholarship n. 4 on the topic: “<i>Theoretical-experimental analysis of renewable energy conversion devices in marine environment</i>” - n. 1 place without scholarship on free theme
Admission procedures	<p>Admission will take place on the basis of:</p> <ol style="list-style-type: none"> a) evaluation of a research project and qualifications (max 60 points) b) oral and language exam (max 60 points) <p>a) evaluation of a research project and qualifications. It is aimed at identifying the preparation and motivation for participation in the PhD course and will be deduced from the following documents and qualifications:</p> <ul style="list-style-type: none"> - A research project in Italian or in English (annex B) focusing on the topic of the scholarship for which candidates intended to compete (see scholarship topics). The project should not exceed 2.000 words, including an abstract of no more than 150 words, and should be divided into the following parts: 1. Objectives and purposes of the research; 2. State of the art of the scientific debate relating to the proposed field of study and any interdisciplinary aspects; 3. Research methodology; 4. Expected results (max 40 points). - curriculum vitae, reporting the degree grade, the educational course and any qualifications held (up to 20 points).



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	<p>The access to the oral exam is achieved with a score of at least 42/60 in the evaluation of the research project and curriculum.</p> <p>b) oral test and assessment of knowledge of the English language. It consists of:</p> <ul style="list-style-type: none"> • discussion of the project and evaluation of the candidate's aptitude for scientific research • assessment of the knowledge of the English language. Foreign candidates must demonstrate that they have at least basic knowledge of the Italian language. <p>Access to the final ranking is achieved with a score of at least 42/60 in the oral exam</p>
<p>Exam diary</p>	<p>Evaluation of the research project and qualifications: September 23rd, 2025 at 10:30</p> <p>The ranking list of the candidates admitted to the oral exam will be published by: September 24th, 2025</p> <p>Oral and language test: September 25th, 2025 at 10:30</p> <p>Both tests will take place at the DICEAM Department of the Mediterranean University of Reggio Calabria, located in Via Zehender, Feo di Vito, 89122 Reggio Calabria. Candidates residing abroad and those residing more than 700 km from the selection location can request to carry out the interview via video-conference. This choice must be clearly indicated in the application form by specifying an e-mail address to be contacted at. This address will be used to communicate the methods and platform chosen by the commission to carry out the interview.</p> <p>Any changes to the exam calendar will be published on the website at the following link: http://www.unirc.it/ricerca/dottorato-di-ricerca/bando-dottorato-di-ricerca-xli-ciclo</p> <p>No other forms of notice will be activated by this University.</p>
<p>Test language</p>	<p>English</p>
<p>Required qualification</p>	<p>LM-3 Landscape architecture LM-3 R Landscape architecture LM-4 Architecture and building engineering-architecture LM-4 R Architecture and building engineering-architecture LM-4 c.u. Architecture and construction engineering-architecture (five-year) LM-4 c.u. R Architecture and building engineering-architecture (five years) LM-17 Physics LM-17 R Physics LM-20 Aerospace and astronautic engineering LM-20 R Aerospace and astronautic engineering LM-21 Biomedical Engineering LM-21 R Biomedical Engineering LM-22 Chemical engineering LM-22 R Chemical engineering LM-23 Civil engineering LM-23 R Civil engineering LM-24 Construction engineering LM-25 Automation engineering LM-26 Safety engineering</p>



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	<p>LM-26 R Safety engineering LM-27 Telecommunications engineering LM-28 Electrical engineering LM-29 Electronic engineering LM-30 Energy and nuclear engineering LM-31 Management engineering LM-32 Computer engineering LM-33 Mechanical engineering LM-34 Naval engineering LM-35 Environmental engineering LM-40 Mathematics LM-53 Material engineering LM-54 Chemistry LM-71 Industrial chemistry LM-74 Geology LM-75 Environmental and land sciences 20/S Physics 26/S Biomedical engineering 27/S Chemical engineering 28/S Civil engineering 29/S Automation engineering 30/S Telecommunications engineering 31/S Electrical engineering 32/S Electronic engineering 33/S Energy and nuclear engineering 34/S Management engineering 35/S Computer engineering 36/S Mechanical engineering 37/S Naval engineering 38/S Environmental engineering 45/S Mathematics 61/S Material engineering 62/S Chemistry 81/S Industrial chemistry 82/S Environmental and land sciences</p>
<p>Training period abroad and in the company</p>	<p>All types of scholarships provide for an optional period of study and research abroad up to a maximum of twelve (12) months. The position without scholarship provides for an optional period of study and research abroad up to a maximum of six (6) months.</p>
<p>Description of the project</p>	<p>The PhD in Civil, Environmental and Industrial Engineering is part of and completes the training offer of the Department of Civil, Energy, Environmental and Materials Engineering (DICEAM), which already provides I level courses in L-7 and L-9 classes and II level courses in LM-23 and LM-30/35 (interclass course) classes. The Department, since its foundation in 2012, has been characterized by a strong interdisciplinarity which is fully reflected in the Doctorate project (in the teaching body there are teachers belonging to the CUN areas 01, 02, 03, 08 and 09). The training course allows doctoral students to train in the world of research focused on theoretical, methodological and technological elements related to the macro-disciplinary areas of Civil, Environmental and Industrial Engineering, with particular reference to geotechnical, hydraulic, structural, transport, health-environmental, of chemical processes, of materials and of energy engineering. In the frame of the ecological and digital transition underway and of the transition from a linear to a circular economic model, the fundamental and transversal elements of the PhD course will be the</p>



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	<p>attention to the new technologies and to the environmental, economic and social sustainability of the technological solutions object of the teaching activities and of research. From a strictly educational point of view, the main objective of the PhD is to introduce students to the world of research by providing them with solid methodological foundations. At the same time, the activities will be aimed both at enriching the scientific and technological knowledge of doctoral students, developing their critical sense, and at expanding their relational skills through the promotion of teamwork both in Italy and abroad, with particular attention to the development of communication and dissemination skills. PhD students will be strongly stimulated to tackle the chosen research topic with an interdisciplinary approach that, in particular, connects the methodological aspects typical of one or more engineering disciplines with those of the basic scientific ones (mathematics, physics, chemistry), which are fundamental and essential components of the PhD.</p> <p>The Doctorate will benefit from the excellent endowment of the Department's 17 research laboratories and facilities (https://www.diceam.unirc.it/laboratori.php), which will allow to better support the research activities of the expected number of students. The declared intention is to attract students of excellence in the areas of reference of the course and to make the Doctorate a center of initiatives of national and international appeal while maintaining strong links with the territory. In addition to this, all students will be encouraged to spend periods of study and research in laboratories of excellence in Italy and abroad. The topics covered in the doctorate both in the teaching and research activities are fully consistent with the provisions of the PNRR. The activities carried out as part of the Doctorate comply with the principle "do not cause significant damage" (DNSH) pursuant to art. 17 of Regulation (EU) 2020/852, in coherence with the technical guidelines prepared by the European Commission (Communication from the European Commission 2021/C58/01).</p>
<p>Educational objectives</p>	<p>The PhD Program in Civil, Environmental and Industrial Engineering aims to train young researchers with solid methodological and technical-scientific bases, who are competitive in the reference sectors at a global level. The training objective is the transfer of knowledge on specific topics of Civil, Environmental and Industrial Engineering to train highly specialized figures able to tackle complex research or application issues.</p> <p>The training objectives are aimed at advancing knowledge:</p> <ul style="list-style-type: none"> - of basic sciences, technologies and complex systems at the service of the civil, environmental and industrial engineering sector; - of the design, management, control, safety and monitoring of civil and industrial infrastructures and structures that interact with the environment and the territory; - of the engineering aspects related to the production of energy from renewable sources, of new advanced materials and in the management and enhancement of civil and industrial waste in a context of circular economy. <p>Characteristic elements of the training course are:</p> <p>interdisciplinarity, in particular as a link between the basic scientific disciplines (mathematics, physics and chemistry) and the areas of Civil, Environmental and Industrial Engineering object of study and research (geotechnical, hydraulic, structural, transports, health-environmental, materials and energy engineering), attention to new technologies, in particular digital ones, and to aspects related to environmental, social and economic sustainability of the innovative solutions under study, connection with the territory of reference of the Course, internationalization.</p> <p>Due to the interdisciplinary nature of the topics, the Doctorate is organized in training courses, with both general and specialized courses, aimed at transferring the basic knowledge of each subject area (mainly during the 1st and 2nd year of the course) and at the development of specific research topics, subject of the doctoral theses (in particular during the 2nd and 3rd year). The training will be complemented by experiences in the laboratories of the DICEAM Department of the Mediterranean University of Reggio Calabria, with the possibility of carrying out research periods abroad at prestigious international institutions.</p> <p>To be admitted to the final exam, PhD students must conduct full-time study and research activities for at least three years.</p> <p>As part of the study activities, specific Courses organized by the Board of Professors or by the Doctoral School of the Mediterranean University or Courses, Conferences and Seminars organized by other Institutions and subject to the authorization of the Board of professors, must be attended for at least 120 total hours in the three-year period. At the beginning of the course, the Board of Professors assigns each PhD student a tutor to supervise and assist the student during the entire course of study. The tutor must belong to the teaching staff. Each year, each student, in agreement with his/her tutor, presents a training plan which presents, in a concise manner, the courses that the student intends to follow and the other planned activities. Normally, the interdisciplinary and methodological courses organized by the Doctoral School of the Mediterranean University of Reggio</p>



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	<p>Calabria are mandatory during the first and second year of the course, each doctoral student, in agreement with his/her tutor, can instead choose, up to the completion of the expected number of hours, which among the courses proposed by the Board of professors, to attend. Study and research activities, including laboratory activities, constitute the preponderant part of the training course. The training plan is approved by the Board of professors and can be amended during the year, at the request of the student and upon approval by the Board, for proven needs. As part of the PhD program, national and international mobility will be stimulated so that students can conduct experiences in laboratories and research centers of excellence in Italy and abroad.</p> <p>Training activities common to the curricula will be aimed, in collaboration with the Doctoral School, in particular at an in-depth study of:</p> <ol style="list-style-type: none"> 1) English language improvement 2) Enhancement and dissemination of intellectual property results and open access to research data and products 3) Management of research and knowledge of European and international research systems 4) Fundamental principles of ethics, gender equality and integrity.
<p>Occupational and professional opportunities</p>	<p>The figure formed by the PhD Course in Civil, Environmental and Industrial Engineering is characterized by the ability to integrate the specialized skills acquired in the various areas of design, construction and management of structures and infrastructures, of environmental monitoring and protection, of the analysis and prevention of natural and anthropogenic risks, of the production of materials and energy, of innovative industrial technologies, with the characterizing elements of the ecological transition, of the sustainable development, of the circular economy and of the opportunities offered by new technologies.</p> <p>The professional figure to be trained, in addition to holding highly professional positions in productive sectors with a strong technological value, will have professional skills and abilities capable of leading research groups operating in the public or private sector.</p> <p>Therefore, the Doctorate aims to train highly qualified professionals capable of holding key positions in public and private research centers, top management positions in Authorities, Public Administrations and Engineering companies engaged in the design, planning and management of structures and infrastructures, environmental remediation, soil protection, waste management, waste and raw materials management, prevention and management of natural and anthropogenic risks, production and management processes of low environmental impact energy, sustainable mobility.</p> <p>There are many employment and professional opportunities: the PhD in Civil, Environmental and Industrial Engineering will be able to find employment as well as in research centers and national and international universities, especially in all small, medium and large enterprises and public administrations that provide for the management, coordination and execution of highly qualified research activities aimed at the development of innovative technologies in all sectors of civil, environmental and industrial engineering.</p> <p>In addition, the entrepreneurial activity of doctoral students who, in the course of their research, will achieve results with a high degree of innovation, also through the use of academic spin-offs, will be strongly encouraged.</p>
<p>Short description of the curriculum: ENERGY PRODUCTION FROM RENEWABLE SOURCES</p>	<p>The production of energy from renewable sources plays a key role in the ecological transition process, in particular with a view to achieving the almost complete decarbonisation of the country by 2050. Replacing fossil energy sources requires the design of new technologies and the improvement of existing ones. In this curriculum, the teaching and research activities will be aimed at studying the techniques for exploiting solar, wind, geothermal, hydroelectric, sea waves, tides, biomasses energy for the production of electrical and thermal energy and related storage systems, including innovative ones based on the use of hydrogen. As part of this Curriculum, teaching and research activities will be carried out with particular attention to:</p> <ul style="list-style-type: none"> ◦ Photovoltaic systems and solar collectors ◦ Onshore and offshore wind farms ◦ Geothermal plants ◦ Offshore foundations ◦ Plants and systems for the exploitation of wave energy and tides ◦ High-performance hydroelectric plants ◦ Storage systems that use hydrogen as an energy vector ◦ Smart Grid for sustainability and efficiency. <p>The subject of the analysis will also be the comparison of the various technologies in terms of efficiency and production costs, as well as the assessment of their suitability for implementation for distributed generation. Finally, the effect of a widespread penetration of these sources to replace fossil</p>



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	<p>fuels in various areas (construction, transport and industry) will be estimated in terms of greenhouse gas emissions reduction, the main causes of climate change, and urban pollution.</p>
<p>Short description of the curriculum: NATURAL, ENVIRONMENTAL AND ANTHROPIC RISKS</p>	<p>The Curriculum aims to deepen and develop knowledge of natural phenomena and their interactions with ecosystems, human activities and infrastructures present in the area, in order to characterize, predict and mitigate natural, environmental and anthropogenic risks. The course is aimed at the integration of knowledge acquired on risk phenomena, technological innovation, systems capable of monitoring the environment in an integrated way, networks for data management and environmental, structural, hydraulic and geotechnical modeling for the assessment of impacts in terms of anthropogenic pollution and calamitous events at different scales.</p> <p>The didactic and research activities addressed will concern:</p> <ul style="list-style-type: none"> ◦ Remediation of contaminated sites ◦ Controlled landfills ◦ Innovative treatments of civil and industrial wastewater ◦ Integrated and sustainable management of the urban waste cycle ◦ Seismic risk assessment methods ◦ Seismic protection of buildings, infrastructures, historical and monumental assets ◦ Methods for estimating extreme events at sea both in the short and long term ◦ Models for coastal risk assessment ◦ Hydraulic protection of coastal, river and urban areas ◦ Problems related to the design and sizing of filtering transitions in embankment works ◦ Analysis, estimation and management and mitigation of landslide, erosion and coastal flooding and flood risk ◦ Principles, theories and analytical, computational and experimental methodologies for the physical-mechanical modeling of soils and rocks, also aimed at risk mitigation ◦ Assessment and mitigation of the risk of land liquefaction ◦ Local Seismic Response Analysis ◦ Techniques for improving and strengthening soils and rock masses ◦ Innovative structural and geotechnical monitoring systems ◦ Environmental impact assessment of infrastructures
<p>Short description of the curriculum: SUSTAINABLE AND RESILIENT INFRASTRUCTURE S AND STRUCTURES</p>	<p>Sustainability and resilience are fundamental objectives in the construction of new infrastructures and in the adaptation of existing ones. In this Curriculum particular attention will be paid to the issues of resilience, safety and reliability of buildings and infrastructures, the use and optimization of sustainable design solutions (which include the use of geosynthetics), the design and development of new materials with advanced mechanical performance, innovative solutions for the structural and technological sustainability of structures at sea.</p> <p>Therefore, teaching and research activities of present Curriculum will relate to:</p> <ul style="list-style-type: none"> ◦ Metamaterials for structural engineering ◦ Innovative infrastructures at sea ◦ Study of hydraulic phenomena in pressurized pipelines, in Fire Protection Systems (FPS) and in aqueduct networks ◦ Sustainable and resilient geotechnical works ◦ Performance analysis of the static and seismic behavior of geotechnical works ◦ Eco-sustainable technologies and materials ◦ Sustainable mobility ◦ Functional adaptation of the infrastructural heritage ◦ Innovative mobility systems and intelligent infrastructures
<p>Short description of the curriculum: PROCESSES, TECHNOLOGIES AND MATERIALS FOR THE ECOLOGICAL TRANSITION</p>	<p>The ecological transition and the transition from a linear to a circular economic system require a complete rethinking of production activities. The challenges for environmental sustainability involve the identification of new production methods, the development of materials that require lower consumption of raw materials, energy and water resources and the enhancement of agricultural, urban and industrial waste and waste. As part of this Curriculum, therefore, teaching and research activities will be developed relating to:</p> <ul style="list-style-type: none"> ◦ New materials and technologies for increasing the energy efficiency of public and private buildings to achieve the "nZEB" standards - nearly Zero Energy Buildings and energy-plus buildings and the construction of energy districts and communities; ◦ Green hydrogen production, to be used as a sustainable energy vector both in fuel cells for the production of electricity and as fuel in internal combustion engines, also with a view to achieving zero-emission mobility; ◦ Bio-refining of waste and biodegradable waste for the production of compounds for basic chemistry, biofuels, fertilizers and energy.



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	<ul style="list-style-type: none"> ◦ Green chemical materials and processes ◦ Reuse of waste materials in civil engineering works ◦ Use of innovative synthetic materials in civil and environmental engineering works to promote the ecological transition process ◦ Behavior of constructions over time (life cycle, degradation of materials, fatigue, etc.). ◦ Circular economy in transport infrastructure. ◦ Evaluation and non-destructive tests for modeling and diagnostics of materials for Industry 4.0 ◦ Artificial Intelligence methods for engineering applications ◦ Microgrid models for energy sustainability ◦ Organization and management techniques of production processes ◦ Energy management and energy market ◦ Industrial process automation and DCS systems
<p>Documentation to be attached to the application</p>	<p>Candidates when submitting the application on the esse3 platform must insert the following documentation:</p> <ul style="list-style-type: none"> - A research project <i>in Italian or in English (annex B)</i> focusing on the topic of the scholarship for which candidates intended to compete (see scholarship topics). The project must not exceed 2.000 words, including an abstract of no more than 150 words, and must be divided into the following parts: 1. Description of the research topic and the state of the art of the scientific debate relating to the proposed field of study, with bibliographical references; 2. Objectives and purposes of the research; 3. Research methodology; 4. Expected results - European format curriculum vitae; - self-certification of the degree diploma pursuant to the 445 D.P.R. of 28/12/2000; - photocopy of a valid identification document. <p>ONLY FOR NON-EUROPEAN CANDIDATES: the suitability of the qualification obtained from foreign universities can be ascertained, solely for the purposes of admission to the selection, by the judging commission. The degree certificate presented must include the study plan and the exams taken with the relevant grade. Additional documents deemed useful for assessing the suitability of the qualification may be attached.</p> <p>If the certificate and additional documents are drawn up in a language other than Italian or English, they must be translated and legalized by the Italian Embassy or Consulate in the country of origin.</p>



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FORM N. 4

PhD Program	Information Engineering
Cycle	XLI
Curricula	= = = =
Duration	3 years
Coordinator	Prof. Tommaso Isernia
Department	Ingegneria dell'Informazione, delle Infrastrutture e dell'Energia Sostenibile (DIIES)
PhD Positions	n. 6 PhD positions: 5 with scholarship; 1 without scholarship
Scholarships	<ul style="list-style-type: none"> • n. 2 scholarships funded by the University Mediterranea of Reggio Calabria • n. 2 scholarships funded by the “Patti Territoriali” on the theme “<i>ICT for Sustainability and Sustainable ICT</i>” • n. 1 scholarship funded by DIIES (Dip. di Eccellenza)
Topics associated to the scholarships (to be specified in Annex B)	<p>- scholarships funded by the University Mediterranea of Reggio Calabria and position without scholarship: free topic provided it agrees with the general scope and goals of the PhD Course;</p> <p>- scholarships funded through the Patti Territoriali: topic in the area of “<i>Information and Communication Technologies (ICT) and digital systems for sustainability : smart environments, 6G, e-health</i>”</p> <p>- scholarship funded by DIIES: topic in the area of “<i>Smart, Secure and Connected Systems and Society</i>”</p>
Admission phases	<p>The PhD admission is organized in two phases:</p> <p>a) Evaluation of the candidate’s qualifications and research project (max 60 points)</p> <p>b) Interview and verification of knowledge of the English language (max 60 points).</p> <p>In detail:</p> <p>a) Evaluation of the candidate’s qualifications and research project: it is based on the following documents that must be attached to the application:</p> <ul style="list-style-type: none"> • Curriculum Vitae of the applicant with a detailed breakdown of the studies carried out and the scores obtained, as well as any publication and other relevant titles (max 20 points); • Research project, written in Italian or English of no more than 2.500 words, including an abstract of no more than 150 words, coherent with the research topics of the scholarship(s) to which the candidate intends to apply (see section Thematic description of the scholarships). The project can be organized as follows: <ol style="list-style-type: none"> 1. Objectives and relevance of the proposed research; 2. State-of-the-art within the reference field and related bibliography; 3. Methodologies and tools that the candidate plans to use; 4. Expected results (max 40 points). Only candidates with a score of at least 42/60 are admitted to the interview <p>b) Interview and verification of knowledge of the English language</p> <ul style="list-style-type: none"> • Discussion, in Italian or English, of the project and titles/publications and assessment of the candidate's aptitude for scientific research. • Assessment of knowledge of the English language. <p>The final ranking is accessed with a score of at least 42/60.</p>



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<p>Calendar</p>	<p>a) Evaluation of the candidate's qualifications and research project: September 17th, 2025 The results will be published by September 19th, 2025</p> <p>b) Interview and verification of knowledge of the English language: on September 25th, 2025 at 10.00 am (Italian time). Interviews of the admitted candidates will be carried out on line (videoconference). The video interview, which is public, must ensure the reciprocal visibility and the creation and sharing of handwritten documents. At the beginning of the interview a valid ID must be exhibited.</p> <p>Details of the calendar and platform for online interviews, and any changes to the exam calendar will be published on the website at the following link: http://www.unirc.it/ricerca/dottorato-di-ricerca/bando-dottorato-di-ricerca-xli-ciclo</p> <p>No other forms of notification will be activated by this University.</p>
<p>Language tested</p>	<p>ENGLISH</p>
<p>Degree Qualification requested according to Italian classification (LM or /S stands for Master degree) Equivalent degrees achieved abroad are also admissible</p>	<p>LM-8 Biotecnologie industriali LM-17 Fisica LM-18 Informatica LM-20 Ingegneria aerospaziale e astronautica LM-21 Ingegneria biomedica LM-22 Ingegneria chimica LM-23 Ingegneria civile LM-24 Ingegneria dei sistemi edilizi LM-25 Ingegneria dell'automazione LM-26 Ingegneria della sicurezza LM-27 Ingegneria delle telecomunicazioni LM-28 Ingegneria elettrica LM-29 Ingegneria elettronica LM-30 Ingegneria energetica e nucleare LM-31 Ingegneria gestionale LM-32 Ingegneria informatica LM-33 Ingegneria meccanica LM-34 Ingegneria navale LM-35 Ingegneria per l'ambiente e il territorio LM-40 Matematica LM-44 Modellistica matematico-fisica per l'ingegneria LM-48 Pianificazione territoriale urbanistica e ambientale LM-53 Scienza e ingegneria dei materiali LM-54 Scienze chimiche LM-55 Scienze cognitive LM-56 Scienze dell'economia LM-66 Sicurezza informatica LM-70 Scienze e tecnologie alimentari LM-71 Scienze e tecnologie della chimica industriale LM-75 Scienze e tecnologie per l'ambiente e il territorio LM-82 Scienze statistiche LM-91 Tecniche e metodi per la società dell'informazione LM-92 Teorie della comunicazione LM-93 Teorie e metodologie dell'e-learning e della media education</p>



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	<p>LM Sc. Mat. Scienze dei materiali LM-53. Ingegneria dei materiali 8/S (specialistiche in biotecnologie industriali) 20/S (specialistiche in fisica) 23/S (specialistiche in informatica) 25/S (specialistiche in ingegneria aerospaziale e astronautica) 26/S (specialistiche in ingegneria biomedica) 27/S (specialistiche in ingegneria chimica) 28/S (specialistiche in ingegneria civile) 29/S (specialistiche in ingegneria dell'automazione) 30/S (specialistiche in ingegneria delle telecomunicazioni) 31/S (specialistiche in ingegneria elettrica) 32/S (specialistiche in ingegneria elettronica) 33/S (specialistiche in ingegneria energetica e nucleare) 34/S (specialistiche in ingegneria gestionale) 35/S (specialistiche in ingegneria informatica) 36/S (specialistiche in ingegneria meccanica) 37/S (specialistiche in ingegneria navale) 38/S (specialistiche in ingegneria per l'ambiente e il territorio) 45/S (specialistiche in matematica) 48/S (specialistiche in metodi per l'analisi valutativa dei sistemi complessi) 50/S (specialistiche in modellistica matematico-fisica per l'ingegneria) 54/S (specialistiche in pianificazione territoriale urbanistica e ambientale) 61/S (specialistiche in scienza e ingegneria dei materiali) 62/S (specialistiche in scienze chimiche) 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) 92/S (specialistiche in statistica per la ricerca sperimentale) 100/S (specialistiche in tecniche e metodi per la società dell'informazione) 101/S (specialistiche in teoria della comunicazione)</p>
<p>Period of training abroad and in enterprises</p>	<p>For all types of scholarships provide an optional period of study and research abroad up to a maximum of twelve (12) months. The position without scholarship provide an optional period of study and research abroad up to a maximum of six (6) months.</p>
<p>PhD program description</p>	<p>The PhD program in Information Engineering, within the Department of Excellence DIIES (Department of Information Engineering, Infrastructures and Sustainable Energy) of University Mediterranea of Reggio Calabria, aims to form professionals with high qualification and advanced multidisciplinary skills in the area of Information and Communication Technologies (ICT) and their applications. The PhD program focuses on Information Engineering's technologies, methods and systems, inherently transversal to many highly innovative application contexts. Therefore, the PhD program encourages interdisciplinary studies within the Key Enabling Technologies (KETs) - ranging from ICT to nanotechnologies and nanoelectronics, to advanced materials, photonics, and biotechnologies. It offers a wide and differentiated training program that aims to provide the means to develop innovative theoretical and practical research topics, including both methodological aspects of fundamental scientific disciplines (mathematics, physics, and chemistry) and Artificial Intelligence, and in-depth analysis of Information Engineering-related topics (from computer science to electronics to telecommunications). The objective is to form, in a multidisciplinary context, PhDs with solid competences in Information Engineering, capable of innovating, through solutions, methods and key enabling technologies, in strategic scenarios such as agri-industry, renewable energy, biomedicine, public administration, environmental and infrastructure monitoring, Industry 5.0, e-Health, smart cities and sustainable mobility.</p>



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<p>Training Objectives</p>	<p>The PhD training objectives concern:</p> <ul style="list-style-type: none"> - deepening the theoretical foundations of the disciplines related to the reference scientific sectors for Information Engineering and its related application contexts, with a special focus on the sustainability aspects; - strengthening of methodological training in the areas of mathematics-physics-chemistry, statistics, artificial intelligence, with reference to the methods of largest interest for Information Engineering; - critical analysis of results and perspectives in the sector of interest of the PhD student; - development of advanced research, including possible unconventional applications of ICT and other KETs. <p>Furthermore, the PhD candidate will have the ability to:</p> <ul style="list-style-type: none"> - plan and carry out experimental and/or numerical tests and verifications; - analyse technological innovation needs of companies and public and private, national and international organizations; - identify funding opportunities; - planning research and technology transfer projects. <p>The training program is organized in the following activities:</p> <p>Mini-courses. Typically of 8 or 12 hours, of both methodological and informative types, for fundamental and advanced training. They can be selected by the PhD student in a large pool of multi-disciplinary courses to create a flexible and customized training plan.</p> <p>Transversal skills. Acquired by attending courses offered by the Doctoral School on the following main topics: European and international research project management; dissemination; intellectual property rights and open science; ethics, gender equality and integrity; language skills. PhDs are requested to develop third-mission activities, by developing communication capabilities towards different target groups.</p> <p>External courses. Offered by PhD programs in other national and international research Institutions; or by attending seminars from experts in Universities, Research Centres and Industries; or by participating in national and international PhD Schools in the ICT and KET areas.</p> <p>PhD students devote most of their time to research (study of the related literature, paper writing, conference participation, thesis preparation, etc.), under the supervision of one or more tutors, spending part of the time in other research institutions in Italy or abroad.</p>
<p>Expected employment and professional opportunities</p>	<p>PhD candidates who go through the program will be able to choose between various employment opportunities, namely:</p> <ol style="list-style-type: none"> 1. Academic research. A high percentage of research doctors have been recruited as Researchers / Professors from Italian universities, and others are permanently employed in foreign Universities; 2. National (CNR, CIRA, ENEA, ASI, INFN, CNIT) and international (EURATOM, CERN, AFRL, IPP, ESA) research institutes and consortia; 3. Design, research and development activities in national and international companies in the ICT sector and KETs. In this regard, it should be noted that the ICT industry is constantly looking for personnel with a post graduate level of specialization to be included in the R&D departments. 4. Management of technological innovation in companies, public and private institutes active in the sector of services or innovative start-ups.
<p>Documents to be attached to the application</p>	<p>Candidates must attach on the esse3 platform when submitting the application the following documents:</p> <ul style="list-style-type: none"> • A research project (annex B) focusing on the topic of the scholarship for which candidates intended to compete (see scholarship topics). The project will preferably be organized as follows: 1. Objectives and relevance of the proposed research; 2. State-of-the-art within the reference field and related bibliography; 3. Methodologies and tools that the candidate plans to use; 4. Expected results. • Curriculum vitae of the applicant in European format with a detailed breakdown of the studies carried out and the scores obtained, as well as any publication and other relevant titles.



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- **Self-certification of the degree diploma** pursuant to the D.P.R. 445 of 28 December 2000.
- **Copy of a valid identity document**, which will then be shown, for identification purposes, during the interview.

Master's degree and academic transcripts will be assessed by the Commission of admittance. These titles shall provide the list of exams and related scores. Candidates who have received the degree (or other titles) from a non-Italian institution must present titles **translated in one of the following languages (Italian or English)**, otherwise Master's degree and academic transcripts must be translated and legalized by the Italian Embassy or Consulate in their country of origin.



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FORM N. 5

PhD programme	Agricultural, Food and Forestry Science (SAAF)
Cycle	XLI
Curricula	=====
Coordinator	Prof. Leonardo SCHENA
Department	Agraria
Duration	3 years
PhD positions	5 PhD positions (4 with scholarship, 1 without scholarship). One position with scholarship is priority reserved to foreign candidates.
Scholarships	<ul style="list-style-type: none"> • n. 2 scholarships funded by the University Mediterranea of Reggio Calabria • n. 2 scholarships funded by the “Patti Territoriali” on the theme “<i>Il Green Deal europeo per la sostenibilità dei Sistemi Agroalimentari</i>”.
Topic of the scholarships to be indicated in annex B	<p>- scholarship funded by the University Mediterranea of Reggio Calabria and position without scholarship (Topic consistent with the EU strategy "Farm to Fork", "Green Deal" and/or "One-Health");</p> <p>- scholarships funded by the “Patti Territoriali” (Topic consistent with the EU strategy "Farm to Fork", "Green Deal" and/or "One-Health")</p>
Admission	<p>Admission to the PhD course is based on two steps:</p> <p>A) EVALUATION OF A RESEARCH PROJECT PROPOSED BY THE CANDIDATE AND EVALUATION OF ITS QUALIFICATION (<i>up to 60 points</i>)</p> <p>- The research project (annex B) focusing on the topic of the scholarship for which candidates intended to compete (see scholarship topics). <i>The project must be written in English or Italian and should not exceed 25,000 characters (including spaces). It should include the following parts: i) Title, ii) Abstract, iii) Introduction, iv) Objectives, v) Planned activities and methods, vi) Expected results and their relevance, vii) Bibliography.</i> A maximum of 45 points can be awarded for the project.</p> <p>- Curriculum vitae containing details on the studies carried out and marks obtained in each discipline, any qualifications relating to the topic of the doctorate and any scientific publications. A maximum of 15 points can be awarded for the curriculum.</p> <p>A score of at least 42/60 is needed in the evaluation of research project and curriculum to be admitted to the oral exam.</p> <p>B) ORAL EXAM AND ASSESSMENT OF KNOWLEDGE OF THE LANGUAGE (<i>up to 60 points</i>)</p> <p>- Interview in English or Italian focusing on the discussion of the research project, evaluating the candidate aptitude to scientific research and his/her general scientific knowledge.</p> <p>- Assessment of the English language. For foreign candidates a basic knowledge of the Italian language will be also evaluated.</p> <p>A score of at least 42/60 is needed to be admitted the final ranking</p>



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<p>Admission schedule</p>	<p>Evaluation of research projects and CVs: Thursday, September 18th, 2025 The list of admitted to the oral exam will be published by Monday, September 22nd</p> <p>Interview and language test: Thursday, September 25th starting at 9:00 AM. The interview will take place at the Department of Agriculture of the <i>Mediterranea</i> University of Reggio Calabria, Località Feo di Vito - 89122 Reggio Calabria.</p> <p>Candidates who are resident or temporary based outside Italy, and those who reside more than 700 km away from the venue where interviews will take place, can request to be interviewed remotely. <u>These candidates must clearly indicate their choice in the application form, specifying an e-mail address to be contacted to schedule the remote interview.</u></p> <p>Schedule variations will exclusively be published at the following link: http://www.unirc.it/ricerca/dottorato-di-ricerca/bando-dottorato-di-ricerca-xli-ciclo</p> <p>Candidates will not receive communications under any other form.</p>
<p>Language test</p>	<p>English (English and Italian for foreigner candidates)</p>
<p>Training period abroad and in enterprises</p>	<p>For all types of scholarships there is an optional period of study and research abroad up to a maximum of twelve (12) months.</p> <p>The position without scholarship there is an optional period of study and research abroad up to a maximum of six (6) months.</p>
<p>Degree Qualification requested according to Italian classification.</p> <p>Equivalent degrees obtained abroad are also admissible</p>	<p>LM-3 Architettura del paesaggio LM-4 Architettura e ingegneria edile-architettura LM-4 c.u. Architettura e ingegneria edile-architettura (quinquennale) LM-6 Biologia LM-7 Biotecnologie agrarie LM-8 Biotecnologie industriali LM-9 Biotecnologie mediche, veterinarie e farmaceutiche LM-13 Farmacia e farmacia industriale LM-17 Fisica LM-18 Informatica LM-22 Ingegneria chimica LM-23 Ingegneria civile LM-24 Ingegneria dei sistemi edilizi LM-25 Ingegneria dell'automazione LM-26 Ingegneria della sicurezza LM-27 Ingegneria delle telecomunicazioni LM-29 Ingegneria elettronica LM-30 Ingegneria energetica e nucleare LM-31 Ingegneria gestionale LM-32 Ingegneria informatica LM-33 Ingegneria meccanica LM-35 Ingegneria per l'ambiente e il territorio LM-40 Matematica LM-41 Medicina e chirurgia LM-42 Medicina veterinaria LM-48 Pianificazione territoriale urbanistica e ambientale</p>



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LM-49 Progettazione e gestione dei sistemi turistici
LM-53 Scienza e ingegneria dei materiali
LM-54 Scienze chimiche
LM-56 Scienze dell'economia
LM-60 Scienze della natura
LM-61 Scienze della nutrizione umana
LM-69 Scienze e tecnologie agrarie
LM-70 Scienze e tecnologie alimentari
LM-71 Scienze e tecnologie della chimica industriale
LM-73 Scienze e tecnologie forestali ed ambientali
LM-74 Scienze e tecnologie geologiche
LM-75 Scienze e tecnologie per l'ambiente e il territorio
LM-76 Scienze economiche per l'ambiente e la cultura
LM-82 Scienze statistiche
LM-86 Scienze zootecniche e tecnologie animali
LM/GASTR Scienze economiche e sociali della gastronomia
3/S (specialistiche in architettura del paesaggio)
4/S (specialistiche in architettura e ingegneria edile)
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)
14/S (specialistiche in farmacia e farmacia industriale)
20/S (specialistiche in fisica)
23/S (specialistiche in informatica)
27/S (specialistiche in ingegneria chimica)
28/S (specialistiche in ingegneria civile)
29/S (specialistiche in ingegneria dell'automazione)
32/S (specialistiche in ingegneria elettronica)
34/S (specialistiche in ingegneria gestionale)
35/S (specialistiche in ingegneria informatica)
36/S (specialistiche in ingegneria meccanica)
38/S (specialistiche in ingegneria per l'ambiente e il territorio)
45/S (specialistiche in matematica)
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)
64/S (specialistiche in scienze dell'economia)
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)
79/S (specialistiche in scienze e tecnologie agrozootecniche)
81/S (specialistiche in scienze e tecnologie della chimica industriale)
82/S (specialistiche in scienze e tecnologie per l'ambiente e il territorio)
83/S (specialistiche in scienze economiche per l'ambiente e la cultura)
84/S (specialistiche in scienze economico-aziendali)



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	<p>85/S (specialistiche in scienze geofisiche) 86/S (specialistiche in scienze geologiche) 92/S (specialistiche in statistica per la ricerca sperimentale)</p>
<p>Description of the PhD program</p>	<p>The PhD program in Agricultural, Food and Forestry Sciences (SAAF) embraces numerous research topics in a wide range of scientific fields, spanning the agricultural, food and forestry sectors. The main goal is to train the next generation of students that will improve the efficiency of production processes with particular attention to innovation and sustainability.</p> <p>The PhD course take advantage of skills from a Board of 40 professors of the Department of Agriculture including 33 full and associate professors, 3 permanent researchers and 4 fixed-term researchers of type B (RTDB) belonging to the scientific disciplinary sectors AGRI-01/A, AGRI-02/A, AGRI-03/A, AGRI-03/B, AGRI-03/C, AGRI-04/A, AGRI-04/B, AGRI-04/C, AGRI-05/A, AGRI-05/B, AGRI-06/A, AGRI-06/B, AGRI-07/A, AGRI-08/A, AGRI-09/B and BIOS-01/C. The board also includes a full professor from the Department of Veterinary Sciences of the University of Messina (SSD AGRI-04/C) and 4 professors working in foreign universities or research centers with advanced skills in: 1) Study of the microbiome and its impact on plant growth and health; 2) Management of forest resources and hydrology of forest soils in the post-fire phase; 3) Participatory development and economic evaluation of EU policies on forest, biodiversity and bioenergy; 4) Agroecology, analysis of ecosystem services in olive growing, soil biodiversity, nutrient cycling and organic farming. Furthermore, the collaboration with qualified professors and researchers from the same Department of Agriculture and/or other universities and/or research institutions, not belonging to the board, it will be possible to draw on further specific skills to support the doctorate in training activities.</p> <p>Topics included within the PhD program are:</p> <ul style="list-style-type: none"> - Agronomy, arboriculture, chemistry and agricultural genetics. Soil-plant-atmosphere relationships, water use efficiency, adaptation of herbaceous and/or tree crops to abiotic stresses, polycultural systems and agrobiodiversity, agricultural genetics and breeding methods, sustainable agriculture, soil chemistry and plant physiology, recycling of agro-industrial biomass for agronomic purposes. - Economics, Appraisal and Policy of Agri-food and Forestry systems. Economic, management and estimation studies of the production, transformation, distribution and consumption of products in the primary sector (food and no-food), analysis of policies and methodologies for the assessment of environmental, economic and social sustainability of agri-food and forestry production processes. - Water and territorial planning. Analysis of the quality and management of water resources in agriculture, irrigation systems, analysis and territorial planning of the rural landscape, protection of agricultural and forest soil, hydrology, Geographic Information Systems and remote sensing for the analysis and monitoring of rural systems, construction systems and settlements in rural areas, buildings for agro-industry, construction systems for rural buildings. - Forestry and ecology. Forest ecology, sustainable management and environmental protection, study and modeling of plant growth, impact of climate change, risk and management of forest fires, technological characteristics of wood. - Crop protection. Study of phytopathogenic microorganisms and arthropods of agricultural, food and forestry interest, interactions between plants and harmful phytopathogens/insects, beneficial microorganisms and insects, plant microbiome and sustainable control strategies. - Food technologies and microbiology. Identification and selection of micro-organisms for bioremediation and food and beverage improvement, development and optimization of food processes, food packaging, food preservation, food safety, optimization of production processes, production of novel foods and evaluation of shelf-life, composition of food products, analytical methods for monitoring production processes and determination of nutraceutical compounds. - Mechanics and mechanization of biosystems. Engineering approaches applied to the agricultural, food and forestry sectors. Precision systems for the production, conversion, use and save of energy in agro-industrial production systems. - Animal husbandry. Characterization of feed for animal husbandry. Study of the food/animal interaction and evaluation of the effects of diets on production performance and product quality. Evaluation of alternative foods. - Biodiversity and conservation of vascular flora
<p>Educational objectives</p>	<p>The main objective of the SAAF PhD program is to train students in advanced scientific and technological disciplines. The program aims at providing basic theoretical and practical skills on</p>



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analytical and experimental methodologies, that will help students to develop their scientific profile together with problem-solving scientific communication skills. The final objective is to train students on solving the important challenges on the efficiency, quality and sustainability of agricultural and forestry production processes. The SAAF PhD program is designed to be extremely dynamic in order to guarantee the training of professional figures capable of responding to the needs of production systems, proposing solutions in different social and territorial contexts, and in particular, within the Mediterranean area.

The SAAF PhD program aims to provide solid training for researchers, through the acquisition of tools and methodologies typical of the scientific approach. These tools can be primarily used within institutions focusing on both fundamental and applied research (Universities and Research Centers, public and private). In addition, the program also promotes the acquisition of skills that can be used outside academia, for example within agricultural, food, and forestry industries.

The PhD program aims to stimulate the development of critical thinking skills and the ability to work within interdisciplinary fields, both in national and international contexts.

In particular, the PhD program trains researchers capable of:

- a) develop independent research paths on relevant scientific issues ;
- b) develop and propose public and private research projects on a local, national and international scale;
- c) identify research needs and their scientific, social and economic relevance;
- d) transfer knowledge through the presentation of research results in national and international contexts and through the implementation of educational activities;
- e) develop networking skills with academic and/or private partners operating in their sector;
- f) apply interdisciplinary approaches derived from the study of different components of the agri-food and forestry biosystems;
- g) knowing how to orient oneself towards scientific qualification and productivity, as essential elements for professional opportunities in research institutions or in other professional fields;
- h) transfer the research results to potential public and private stakeholders;
- e) communicate and disseminate scientific culture nationally and internationally.

In addition, PhD students will acquire the ability to develop research products in the form of scientific articles to be published in high-impact international journals (indexed on the Web of Science and/or Scopus platforms), book chapters and/or informative articles necessary to spread knowledge in a context of third mission within the reference territory.

Job Opportunities

Skills acquired by SAAF PhD students will facilitate their hiring as researchers in public or private centers as well as highly qualified technicians and/or managers in companies operating in the primary sector and in the management of the environment. They may also act as manager in processing companies. Agribusiness is a driving sector for the country's economy with a positive growth trend, characterized by high quality products, sustainability and territorial identity. To support high-quality productions, the support of technicians capable of providing answers and solutions to problems and planning research and development projects is essential. In the context of forest and territorial planning, increasing importance is given to the so-called "sustainable forest management", also aimed at improving the multifunctionality of woods and forests through a continuous advancement of the scientific research.

Graduate doctors will be able to enter areas requiring skills for the production, marketing, technological innovation, and distribution processes, as well as for the management and valorization of forest and wildlife resources. It will find space in private production companies (agri-food production, processing, and import-export companies), research centers, other organizations (Parks, Hospitals, Protection Consortia, Certification Bodies), non-governmental institutions focusing on sustainable development and in spin-off activities linked to research organizations. Finally, the training courses will aim at stimulating the entrepreneurial spirit of graduating students to encourage the creation of new companies with a high content of technological innovation or, in general, to enhance ideas possibly born during the PhD program through their patenting and/or the development of spin-offs and/or startups.

Documents to be attached to the application form

Candidates must upload the following documentation on the Esse3 platform when submitting their application:

- a) A research project (annex B) focusing on the topic of the scholarship for which candidates intended to compete (see scholarship topics).** *The project must be written in English or Italian and should not exceed 25,000 characters (including spaces). It should*



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include the following parts: i) Title, ii) Abstract, iii) Introduction, iv) Objectives, v) Planned activities and methods, vi) Expected results and their relevance, vii) Bibliography.

b) Curriculum Vitae European format

c) Self-certification of the University degree (Under article 46 of Presidential Decree no. 445/00)

d) Copy of the identity document.

ONLY FOR NON-EU CANDIDATES:

The foreign qualification may be declared admissible by the Evaluation Board, solely for the purposes of admission to the selection procedure. **The degree certificate must contain the study plan and the exams taken with the relative marks.** Additional documents deemed useful for the purpose of assessing the suitability of the qualification may be attached. If the certificate and other documents are drawn up in a language other than Italian or English, it must be translated and legalized by the Italian Embassy or Consulate in the country of origin.