

CALL FOR APPLICATIONS FOR ADMISSION TO PH.D. COURSES
Positions with scholarship of innovative Ph.D. programme with industrial characterization
(Cycle XL - 2024/2027)
P.R. Marche FSE+ 2021/2027 - Asse 4 - OS 4a

Art. 1

Call for application

1. The University of Macerata has announced the following public competition for the selection of candidates for admission to the innovative Ph.D. programme with industrial characterization financed by Marche Region on European Social Fund Plus (public notice for the granting of no. 40 innovative Ph.D. research scholarships with industrial characterization, a.y. 2024/2025, for the four universities in the Marche Region - Decree of the Director of Education, Social Innovation and Sport sector no. 63/IISP of April 29th, 2024 - PR Marche ESF + 2021-2027 Axis 4 OS 4°. DGR N.445 of March 25th, 2024). The Ph.D. programme will last three years, beginning on November 1st, 2024, and ending on October 31st, 2027.

Ph.D. courses	Positions with scholarship
LAW AND INNOVATION	2
EDUCATION AND INCLUSION FOR CULTURAL HERITAGE AND TOURISM	1
GLOBAL STUDIES. INSTITUTIONS, RIGHTS, DEMOCRACY	1
QUANTITATIVE METHODS IN ECONOMICS	1
HUMANITIES AND TECHNOLOGIES	2

2. Details and obligations pertaining to the positions available for each curriculum are set out in the individual curriculum descriptions (Annexes A, B, C, D, E), which form an integral part of this call.
3. Any changes, updates or additions will be published **exclusively** on the webpage: <https://www.unimc.it/it/dottorato-di-ricerca/ammissione-ai-corsi/reg-marche/dott-inn40>.
4. The University of Macerata complies with the [European Charter for Researchers and Code of Conduct for the Recruitment of Researchers](#).

Art. 2

Admission requirements

1. Candidates eligible to participate in the present call for applications are those who are inactive, unemployed, in accordance to the relevant regulations in force and to the [L.D. no.150 of September 14th, 2015](#), residents or domiciled in the Marche Region, who have not yet turned 36 years of age.
2. Admission requirements at paragraph 1 must be met at the time of the application.
3. Applications are sent before the submission deadline from those holding a three-year degree issued prior to the (prior to [M.D. no. 509 of November 3rd, 1999](#)) a Master's degree (single-cycle), or a second-level academic qualification issued by institutions belonging to the AFAM (Advanced Artistic and Musical Education) sector, or an equivalent foreign academic qualification (Master's degree) recognised as valid

for participation by the Admission Committee. Applicants will not be discriminated against on the basis of gender, age, religion, or nationality.

4. The suitability of foreign degrees is assessed by the Admission Board, according to the regulations in force in Italy and in the country where the qualification was awarded, as well as treaties or international agreements regarding the recognition of qualifications for the continuation of studies. In such cases, it is necessary to produce copies of the Bachelor's degree and Master's degree diplomas, and copies of the certificates of the examinations taken, accompanied by translations in Italian or English, **for each of the above-mentioned degrees**.
5. All candidates are admitted to the selection with reservations and will be excluded from the selection and the Ph.D. course if, upon verification, it is found that their qualifications do not meet the requirements for admission to Ph.D. courses.
6. Applications may also be submitted by those who are awarded their degree in accordance with the provisions in paragraph 1, with the date of enrolment in the doctoral course, and in any case no later than **October 31st, 2024**. In this case, admission to the application process is conditional and enrolments are regulated by the provisions of Article 6.

Art. 3 Application

1. Applications may exclusively be submitted, in Italian or in English language, online at <https://pica.cineca.it/unimc/dot-2024-rm/> no later than **12.00 p.m. (Italian time) of October 17th, 2024**. Candidates must enclose a copy of a valid identity document (identity card or passport) from which the expiry date of the document can be verified and pay the **non-refundable and compulsory application fee of €15**, according to the method provided in the telematics procedure.
2. Applications that do not follow these guidelines will not be considered.
3. Applications that are not completed in full by the admission deadline (art. 3 par. 1), or that fail to include a copy of university degree records (art. 2 par. 3), ID (identity card or passport), the certifications (art.3 par. 8, 9, 10) or the payment receipt of the application fee, will be excluded from the selection process.
4. **Application fees will not be reimbursed under any circumstances.**
5. Candidates may submit one application only for the same PhD course. In the event of multiple applications, only the last submission in chronological order, will be considered valid.
6. Candidates **must not have previously received a scholarship or partial scholarship** for a Ph.D. programme.
7. Applicants must submit a research proposal related to their chosen topic (maximum 13,000 characters including spaces), with specific reference to the epistemological and methodological framework.
8. The requirement of unemployment status (art. 2 par. 1) must be certified by [Substitutive declaration of certification](#), pursuant to art. 46 of [P.D no. 445 of December 28th, 2000](#), which must be attached to the application.
9. The requirement of unoccupied status (art. 2 par. 1) must be certified by [Substitutive declaration of affidavit](#), pursuant to art. 47 of [P.D no. 445 of December 28th, 2000](#), which must be attached to the application.
10. If the candidate is not resident in Marche Region, the domicile requirement (art. 2 par.1) must be attested by means of a [Substitutive declaration of affidavit](#), pursuant to art. 47 of [P.D no. 445 of December 28th, 2000](#), which must be attached to the application.
11. Qualifications, publications, and any other required documents must be submitted exclusively in electronic .pdf format and attached to the online application.

12. **No amendments or additions may be made to the application after it has been submitted.** Candidates may only withdraw it and submit a new one with all the mandatory elements, by paying the application fee again, within the same deadline as the one indicated in paragraph 1 of this article.
13. The validity of applications will be assessed by the University administration offices after the submission deadline specified in paragraph 1. The University reserves the right to request any additional information deemed necessary. Any false declarations will be subject to prosecution in accordance with current legislation.
14. Further communications concerning this call will be published on the webpage <https://www.unimc.it/it/dottorato-di-ricerca/ammissione-ai-corsi/reg-marche/dott-inn40>.
15. The University does not assume any responsibility for any technical problems, internet issues or service interruptions. If a candidate provides an incorrect email address, the University will not be held liable for any failure to communicate with them. Furthermore, the University will not be held responsible for any problems or delays caused by third parties, unexpected events, or unforeseeable circumstances.

Art. 4

Admission Committee

1. The Admission Committees are appointed for each Ph.D. course, upon designation of the Academic Board, by provision of the Rector, and are composed of university professors and/or researchers. The presidency of each Ph.D. admission Board will be held by the Coordinator of the PhD course or by his/her delegate.
2. The composition of the Ph.D. Admission Committee will be made available publicly after the deadline of the call, on this webpage <https://www.unimc.it/it/dottorato-di-ricerca/ammissione-ai-corsi/reg-marche/dott-inn40>.

Art. 5

Selection

1. Admission to the doctoral course will follow a selection procedure based on qualifications and examinations aimed at ascertaining the candidate's preparation, ability, and aptitude for research.
2. Each application will be subject to a preliminary assessment and will be declared eligible or ineligible for interview on the basis of the criteria established by the Ph.D. course Admission committee.
3. **Results of the aforementioned preliminary assessment will be exclusively published**, on the webpage <https://www.unimc.it/it/dottorato-di-ricerca/ammissione-ai-corsi/reg-marche/dott-inn40>, thereby serving as official notification to candidates.
4. Candidates who have been admitted to interview will be examined by the Admission Committee. The Committee will examine and assess the qualifications, skills profile, training, experience, and aptitude relative to the project proposal. The Admission Committee will also ascertain the language proficiency levels indicated in the application form.
5. The interviews are conducted exclusively via videoconference, according to the schedule published exclusively on the website at <https://www.unimc.it/it/dottorato-di-ricerca/ammissione-ai-corsi/reg-marche/dott-inn40>, along with the link for the online interview.
6. The published schedule of interviews is considered an official notification. Therefore, the candidates must regularly check the aforementioned webpage.
7. Candidates admitted to the interview must bring a valid ID document during the exam.
8. If a candidate does not attend the interview, it will be assumed that they have withdrawn their application from the selection process.

9. At the end of the interview, the Ph.D. Admission Committee assigns each candidate a score on a scale from 1 to 10. Candidates who receive a score of 7 or higher will be considered to have successfully completed the interview. In the event of equal scores, priority will be given to the youngest candidate.
10. The Admission Committee will formulate merit ranking lists which will be approved by Rectoral Decree and published, **exclusively**, at <https://www.unimc.it/it/dottorato-di-ricerca/ammissione-ai-corsi/reg-marche/dott-inn40> as official notification.
11. If no suitable candidates or no eligible candidates are identified for the positions advertised of this call for application, the positions will remain unassigned.
12. Acceptance of the scholarship is subject to specific requirements and obligations, as set out in the Annexes and in art.8.
13. **There is no possibility to enrol in a Ph.D. course by withdrawing the scholarship.**
14. The evaluation judgement, expressed by the Admission Committee in the preliminary assessment and in interview, will be made available to all candidates, at the end of the competition procedures, within the application platform, in accordance with the principles outlined in the [European Researchers' Charter](#).

Art. 6

Enrolment in PhD courses

1. Successful candidates **must complete their enrolment no later than October 31th, 2024**. In order to complete enrolment in the doctoral course, selected applicants are required to:
 - a) Login at <https://studenti.unimc.it/Home.do> and complete the enrolment form;
 - b) Uploading the following documents in the **Attachments section** of the enrolment form:
 - [Dichiarazione del percipiente](#) (*all scholarship winners*);
 - ISEEU 2024 declaration or ISEE for doctoral course 2024 declarationne ISEE per dottorato di ricerca 2024 (*for all scholarship winners who wish to benefit from the reduction of the second instalment of tuition fees*)
 - Copy of residence permit or copy of the of the request receipt for obtaining a residence permit (**non-EU citizens only**);
 - Copy of a health insurance (private or Italian National Health Service) (**non-Italian citizens only**).
 - c) Proceed with the payment of the first instalment of the PhD. tuition fees and/or contributions ([Piano tasse](#)).
2. The selected winners will not receive any further notice regarding the enrolment deadline.
3. Any failure to complete the enrolment by the deadline will be considered a withdrawal from the selection process.
4. **Failure to obtain the required degree within the terms established for the entry date, implies non-admissibility to the doctoral programme and, as a result, the inability to proceed with the enrolment.**
5. **The University of Macerata must receive the enrolment form as well as the receipt of payment of due tuition fees in order to confirm scholarship acceptance and enrolment completion. Those candidates failing to fulfil these requirements will be subject to exclusion.**
6. Fees and/or registration contributions will not be refunded under any circumstances.
7. If a scholarship winner expressly or implicitly waives their entitlement, the scholarship will be awarded to the next successful candidate listed in the final ranking list.
8. The University of Macerata will notify those concerned of any change in the ranking list and the deadline for taking over via the contact e-mail address indicated in the application.

Art. 7

Further fulfilments for candidates with foreign qualifications

1. Winners with admission qualifications obtained in non-EU countries who have not already provided documents for assessing the authenticity and equivalence of the second level qualification obtained when submitting the application (e.g. Diploma Supplement, Declaration of Value issued by the Italian diplomatic authorities in the country where the qualification was obtained, certificate of authenticity and comparability issued by centres such as ENIC-NARIC), will have to provide these documents during the enrolment phase (online in the "Attachments" section) or within two months of the start date of the course.
2. The University reserves the right to request a declaration of authenticity and equivalence for qualifications obtained in EU countries, as well as the provision of the original documentation.
3. Candidates with foreign qualifications who do not present the required documentation at the time of submission of the application or enrolment process will be provisionally enrolled and will be subsequently excluded from the doctoral course if they fail to provide the requested documentation, or if, upon verification, they do not meet the requirements of art. 2. In such cases, any scholarship payments received must be returned.

Art. 8

Fulfilments and obligations of scholarship recipients

1. The Ph.D. student must
 - a. maintain the requirement of unemployment or inactivity throughout the duration of the fellowship benefit (November 1st, 2024 - October 31st, 2027);
 - b. attend the course for its entire duration with an exclusive, full-time commitment, regularly following, on the basis of the indications established by the Academic Board and within the terms and in the manner established by the same, the activities envisaged for his/her educational curriculum, devoting himself/herself to individual study programs, in-depth educational study, and the conduct of assigned research activities;
 - c. strictly adhere to the implementation of the assigned topic related to the project accepted for funding, following the instructions of the supervisors, under penalty of revocation of the grant. Any deviation from the funded project must be reported to the Marche Region;
 - d. observe the principles of the Ph.D. regulations of the University of enrollment and generally all current Ph.D. regulations;
 - e. **mandatorily** carry out study and research activities abroad for a period of not less than (six) months;
 - f. **mandatorily** conduct applied research, in one or more companies pertaining to the project partner Cluster, from 6 to 18 months;
 - g. draw up a report on the research project at the end of each year, aimed to continue the activity, countersigned by the supervisors, to be delivered to the Teachers' Board;
 - h. develop, within the three-year period, a research thesis related to the assigned topic.
2. The Ph.D. student must not be concurrently enrolled in other university courses.

Art. 9

Scholarships

1. The yearly gross amount of the scholarships awarded for attending doctoral courses, set by [M.D. no. 247 of February 23rd, 2022](#) is **€16,243.00**.
2. Scholarship recipients **must sign up with INPS Separate Management Registration (Gestione Separata)**, pursuant to art. 2 par. 26 of the [Law n. 335 of August 8th, 1995](#), and the provisions of art. 4 of [Law no. 476 of August 13th, 1984](#).

3. PhD students who, during the three-year doctoral course, intend to carry out paid activities, which do not, in any case, entail the loss of their unemployment or unemployment status, must be authorised by the Board of teachers to attend the course at the same time.
4. The scholarship cannot be combined with the payment of research grants, nor with other scholarships of any kind, except those granted by national or foreign institutions useful for integrating training and research activities with stays abroad of fellows.
5. The assignment of the scholarship is annual and is confirmed, after passing the verification tests for admission to the following year, by the Academic Board.
6. The amount of the scholarship is increased by 50% for carrying out research activities abroad, authorized by the supervisor, for a total period not exceeding twelve months.
7. The fruition of the scholarship excludes the establishment of a subordinate employment relationship with the University.

Art. 10

Grants for research activities

1. In order to pursue research activities in Italy and abroad, **each doctoral student of the National Doctoral Programme** is granted an annual budget allowance of up to 20% of the amount of the scholarship, in accordance with Art. 9 co. 4 of [M.D. no. 226 of December 14th, 2021](#).

Art. 11

Tuition fees

1. Fees (Regional Fee for the Right to Higher Education, public liability insurance and stamp duty) and the annual fee (Contributo Onnicomprensivo Annuale, COA) for the attendance of the Ph.D. programmes are indicated here: Enrolment and fees ([iscrizioni e tasse](#)).
2. The cost of the annual fee (COA) depends on the student's ISEE for the doctoral course (Financial Revenue Status Index), in accordance with the [Students' payment guidelines](#) and the [Annex](#).
3. Tax exemption, with the exception of civil insurance premium and stamp duty, is granted to individuals with disabilities, with a disability recognition, according to the relevant national regulations, of 66% or more;
4. Withdrawal after enrolment or during the Ph.D. course does not entitle the student to a refund of paid taxes and fees.

Art. 12

Personal Data Processing

1. In accordance with art. 13 of [2016/679/UE - GDPR](#), notice is hereby given that the University of Macerata is committed to respecting the confidential nature of the information provided by candidates: all personal data will be processed only for the purposes connected to and instrumental to this call, according to existing laws.
2. The Data Controller of personal data is the University of Macerata, with headquarters in Macerata, via Crescimbeni nn. 30-32, in the person of the Rector as Legal Representative. The Data Controller can be contacted at urp@unimc.it or at the PEC address ateneo@pec.unimc.it.
3. The Data Protection Officer, designed in pursuant to Article 37 of the GDPR, operates in conjunction with the Data Controller. The Data Protection Officer can be contacted at the following email address: dpo@unimc.it.
4. All selection process records are public. In accordance with [Law No. 241 dated 7th August 1990](#), whoever has a legally relevant interest is entitled to legally exercise the right to access said records within 60 days of their approval.

Art. 13

Officer in Charge of the administrative procedure

1. Pursuant to [Law no. 241 of August 7th, 1990](#) and subsequent amendments, the officer in charge of the administrative procedure is Dr. Giovanni Gison, Scientific Research Area and Doctoral Office, via Don Minzoni, 17 – 62100 Macerata (e-mail: scuola.dottorato@unimc.it; PEC: ateneo@pec.unimc.it).

Art. 14

Final Provisions

1. PhD students are required to comply with the provisions of the [Code of Ethics of the University of Macerata](#).
2. For all issues not provided by the present call for applications, refer to the [M.D. no. 226 of December 14th, 2021](#) and to the [University's PhD regulation](#)
3. In case of discrepancies between the two language versions of the present call for application, the Italian language version prevails.

Table A

CALL FOR APPLICATIONS FOR ADMISSION TO PHD COURSES

(cycle XL – Academic Year 2024/2027)

Positions with scholarship of innovative PhD programme with industrial characterization

P.R. Marche FSE+ 2021/2027 - Asse 4 - OS 4a

PhD programme in LAW AND INNOVATION

PhD Coordinator: Prof. Fabrizio Marongiu Buonaiuti

Positions available with scholarship	2
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PRELIMINARY ASSESSMENT CRITERIA	1. Consistency of the candidate's prior study with his/her chosen doctoral program.
	2. Consistency, quality and originality of the project presented, in view of his/her chosen research topic
	3. Suitability of the candidate's scientific profile based on his/her project submission
Research topics	Activities description
COMMERCIAL COMMUNICATION OF FUNCTIONAL FOODS: STRATEGIES TO ENHANCE HEALTH AND TECHNOLOGICAL QUALITIES AND REGULATORY COMPLIANCE	<p>Following the development strategies of the regional Smart Specialization Strategy 2021-2027 and the objectives of the Agrifood Cluster Marche, the research activity will focus on defining effective strategies for developing and promoting functional foods compliant with the complex regulatory framework. The issue of commercial communication (particularly regarding the legislation on nutritional and health claims) will be crucial to enhancing and adequately communicating the beneficial properties of such foods to consumers.</p> <p>To fully understand the legal issues and implications of functional food preparation, the PhD candidate will integrate legal skills with technical-scientific skills thanks to the collaboration with other project partners specialised in food technologies and the applied research at the companies belonging to the Cluster Agrifood Marche, which involves the empirical collection of data through questionnaires, interviews, and focus groups.</p> <p>Obligations for scholarship holder: the PhD student must compulsorily carry out study and research activities abroad for a period of not less than (six) months; the PhD student must compulsorily carry out applied research, in one or more companies belonging to the project partner Cluster, from 6 to 18 months.</p>

Table A

FAMILY CAREGIVING AND FUNDAMENTAL RIGHTS	<p>Considering the regulatory framework, the public policies and the best practices in the European area, the PhD student will develop innovative and sustainable proposals to address the challenge posed by family caregiving. The proposals involve normative, economic and political actions and aim to face the the critical issues emerging in real contexts.</p> <p>Obligations for scholarship holder: the PhD student must compulsorily carry out study and research activities abroad for a period of not less than (six) months; the PhD student must compulsorily carry out applied research, in one or more companies belonging to the project partner Cluster, from 6 to 18 months.</p>
SUBJECTS ON WHICH THE INTERVIEW HINGES	Presentation and critical discussion of the research project; assessment of the candidate's knowledge related to the research topic chosen; foreign language proficiency.
INTERVIEW ASSESSMENT CRITERIA	<ol style="list-style-type: none"> 1. Originality and logical development of the project in relation to the chosen research topic 2. Assessment of the educational and working profile, including outside the academic context 3. Experience in terms of national and international mobility, congruent with the candidate's curriculum and the project submitted 4. Proficiency test concerning the knowledge of the stated foreign language/s 5. Consistency of prior study with the chosen research topic
SPECIFIC REQUIREMENTS	Knowledge of at least one foreign language, from among English, Spanish and French.

Table B

CALL FOR APPLICATIONS FOR ADMISSION TO PHD COURSES

(cycle XL – Academic Year 2024/2027)

Positions with scholarship of innovative PhD programme with industrial characterization

P.R. Marche FSE+ 2021/2027 - Asse 4 - OS 4°

PhD PROGRAMME in EDUCATION AND INCLUSION FOR CULTURAL HERITAGE AND TOURISM

PhD Coordinator: Prof. Anna Ascenzi

Position available with scholarship		1
PRELIMINARY ASSESSMENT CRITERIA	1. Congruence of a candidate's prior study to his/her chosen doctoral programme.	
	2. Congruence, quality and originality of the project presented in terms of his/her chosen research topic.	
	3. Suitability of a candidate's scientific profile based on his/her project submission.	
Research topic	Activities description	
FOR A COMMUNICATION OF THE INTEGRATED TOURIST OFFER OF THE INLAND AREAS OF THE MARCHE REGION BETWEEN MARKETING AND COMMUNITY RECOVERY	<p>The PhD student will be called to find contents and forms for an innovative communication of the territory of the internal areas of the Marche Region in collaboration with the InsideMarche Live business cluster. After a first step of recognition of scientific literature and national and international best practices, the course will continue with a period at the Movimondo agency in San Severino Marche to set up a shared work and set additional management and organizational skills and with the 6 months experience abroad planned at the University of León in Spain.</p> <p>Obligations for scholarship holders: the doctoral candidate must carry out study and research activities abroad for a period of no less than 6 (six) months; the doctoral candidate must carry out applied research in one or more companies belonging to the project cluster partner for 6 to 18 months.</p>	
SUBJECTS ON WHICH THE INTERVIEW HINGES	Presentation and critical discussion of research project; assessment of knowledge related to the research topic indicated; foreign language proficiency.	
INTERVIEW ASSESSMENT CRITERIA	1. Originality and logical development of project in relation to the research topic chosen by the candidate	
	2. Assessment of training and work profile even outside the university	
	3. Experience in Italy and abroad consonant with the candidate's curriculum and the project he/she has presented	
	4. Proficiency test in the foreign language/s indicated and in the Italian language for foreign candidates	
	5. Congruence of prior study with the chosen topic	
SPECIFIC REQUIREMENTS	Proficiency in one foreign language among: English, Spanish, French.	

Table C

CALL FOR APPLICATIONS FOR ADMISSION TO PHD COURSES

(cycle XL – Academic Year 2024/2027)

Positions with scholarship of innovative PhD programme with industrial characterization

P.R. Marche FSE+ 2021/2027 - Asse 4 - OS 4a

PhD programme in GLOBAL STUDIES. INSTITUTIONS, RIGHTS, DEMOCRACY

PhD Coordinator: Prof. Benedetta BARBISAN

Position available with scholarship	1
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PRELIMINARY ASSESSMENT CRITERIA	1. Evaluation of the master's degree's consistency with the PhD programme
	2. Assessment of curriculum
	3. Evaluation of the project statement's quality, creativity and impact
	4. Language proficiency: English C1
Research topics	Activities description
FOOD PACKAGING: INNOVATIVE SOLUTIONS FOR SAFETY, SUSTAINABILITY AND THE CIRCULAR ECONOMY	<p>The candidate is expected to analyze the legal and technological issues related to the development of innovative, sustainable and globally competitive packaging solutions for the food sector, also in cooperation with some companies of the e-Living Cluster.</p> <p>Obligations for scholarship holder: the PhD student must compulsorily carry out study and research activities abroad for a period of not less than (six) months; the PhD student must compulsorily carry out applied research, in one or more companies belonging to the project partner Cluster, from 6 to 18 months.</p>
INTERVIEW ASSESSMENT CRITERIA	<p>Interview will be conducted and assessed according to these criteria:</p> <ul style="list-style-type: none"> a) discussion with the candidate on the CV; b) discussion with the candidate on the project statement's quality, creativity and impact; c) English language proficiency as emerged during the interview; d) Motivation.

Table C

SPECIFIC REQUIREMENTS

To apply for this PhD programme, the candidate must meet the following **FIVE requirements**:

1) Hold a master's degree

2) Present a project statement within the research topic

3) Draft the project statement in English according to the following table of contents (max 2,000 words in 14,000 characters including spaces):

a) Title;

b) Topic;

c) Background (What is the motivation for this PhD proposal? What topics and challenges will be addressed? Why are these topics of relevance (or interest)? Describe concisely the state-of-the-art. What will the PhD proposal address that goes beyond the state-of-the-art?);

d) Objectives (what does the PhD proposal intend to investigate and/or prove? Why is this line of research original and salient in the field? Why the objectives pursued are relevant for the issue investigated?);

e) Research Methodology (Is there a particular method that will lead the research? How does it work? Why is this methodology suited?);

f) Work Plan and Timeline (Provide a six-month outline of how you will complete the work within the time scheduled (the PhD programme takes three years);

g) References (bibliography used in the state-of-the-art and all the relevant sources to explain the proposal).

4) Prove English language proficiency as follows:

either a) demonstrating to be an English native speaker or b) holding a master's degree in English as the medium of instruction.

If the candidate does not meet any of these language requirements, an English proficiency certificate is appreciated proving a C1 level (Effective Operational Proficiency) as stated by the Common European Framework of Reference for Language («the ability to communicate with the emphasis on how well it is done, in terms of appropriacy, sensitivity and the capacity to deal with unfamiliar topics»).

Cambridge English: Advanced (CAE) or Proficiency (CPE), TOEFL (100/120 internet-based) and IELTS (8/10) will be considered. Other certificates may be taken into account.

5) Motivation letter

Fill the section *Motivazioni* in the application form.

Table D

CALL FOR APPLICATIONS FOR ADMISSION TO PHD COURSES

(cycle XL – Academic Year 2024/2027)

Positions with scholarship of innovative PhD programme with industrial characterization

P.R. Marche FSE+ 2021/2027 - Asse 4 - OS 4a

PhD programme in QUANTITATIVE METHODS IN ECONOMICS

PhD Coordinator: Prof. Claudio Socci

Position available with scholarship	1
PRELIMINARY ASSESSMENT CRITERIA	1. Assessment of a degree suitable for access to the program
	2. Assessment of curriculum
	3. Aspects of project, its congruence with the program topics and its innovative potential
	4. Language qualification: English – B2 level or higher
Curriculum / Research topics	Activities description
QME1 / Input-Output analysis Aerospace economy: the potential of manufacturing production in the Marche Region (AEMarche)	<p>The activities envisaged by the innovative PhD programme include:</p> <ul style="list-style-type: none"> - the standard scientific training planned by the PhD course in Quantitative methods in economics and specific training related to the AEMarche project developed within the QME1 curriculum aimed at acquiring a theoretical and methodological basis in the quantitative economic analysis of local production systems; - the collection of qualitative and quantitative data on the regional and national economy useful for understanding the key technical aspects of the Cluster's enterprises and for analyzing the technological trends of greatest interest in the field of the new space economy (materials, application technologies) with the support of the Marche Cluster Explore Aerospace and the Department of Industrial Engineering and Mathematical Sciences (DIISM) of the Marche Polytechnic University; - the clustering analysis of the manufacturing productions of the Marche region and the modelling of industrial development scenarios, with the support of the IDEGA research department of the University of Santiago de Compostela (USC, Spain) where the PhD student will spend three months as a visiting scholar; - the macroeconomic evaluation of industrial policies for the development of the regional economy from an aerospace perspective through the application of a computational general equilibrium (CGE) model. <p>Obligations for scholarship holders: the PhD student must compulsorily carry out study and research activities abroad for a period of not less than (six) months; the PhD student must compulsorily carry out applied research, in one or more companies belonging to the project partner Cluster, from 6 to 18 months.</p>

Table D

<p>SUBJECTS ON WHICH THE INTERVIEW HINGES AND POSSIBLE BIBLIOGRAPHY</p>	<p>Critical presentation and discussion of research project; assessment of knowledge related to the research topic indicated; foreign language proficiency.</p> <p>During the discussion basic knowledge of economics, economic policy and quantitative methods in economics will be tested; based on the scientific project presented, specific knowledge of varied curricula may be tested.</p> <p>Reference bibliography:</p> <p>Miller, R.E. and Blair, P.B. (2009), <i>Input-Output Analysis: Foundations and Extensions</i>, 2nd edition, Cambridge University Press.</p> <p>Chiang, A. C. (1999), <i>Elements of Dynamic Optimization</i>, Long Grove, IL: Waveland Press.</p> <p>Easley D. and Kleinberg J. (2010), <i>Networks, Crowds, and Markets. Reasoning about a Highly Connected World</i>, Cambridge University Press.</p>
<p>INTERVIEW ASSESSMENT CRITERIA</p>	<ol style="list-style-type: none"> 1. Originality and logical development of the project in relation to the chosen research topic 2. Assessment of training and work profile even outside the university 3. Experience of national and international mobilities congruent with the candidate's curriculum and the submitted project. 4. Assessment of candidate's motivation.
<p>SPECIFIC REQUIREMENTS</p>	<p>Basic knowledge of economics and economic policy.</p> <p>The QME Ph.D., well aware of the notable gender gap present in the STEM, in the technical disciplines and in data science, turns its full attention so that the process of selecting candidates shall guarantee gender equality and take place in the absence of any form of discrimination based on social class, gender, sexual orientation, religion or ethnicity.</p>

CALL FOR APPLICATIONS FOR ADMISSION TO PHD COURSES

(cycle XL – Academic Year 2024/2027)

Positions with scholarship of innovative PhD programme with industrial characterization

P.R. Marche FSE+ 2021/2027 - Asse 4 - OS 4a

PhD programme in HUMANITIES AND TECHNOLOGIES

PhD Coordinator: Prof. Roberto Lambertini

Positions available with scholarship	2
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PRELIMINARY ASSESSMENT CRITERIA	1. Quality and originality of the project presented and its congruence with the chosen research topic
	2. Congruence of the applicant's educational path with the chosen PhD Program
	3. Evaluation of the applicant's CV
Research topics	Activities description
UT3 / RICERCA STORICA, GESTIONE DELLA CONOSCENZA ED ETICA NEL MUTAMENTO DIGITALE TOWARDS A NEW WINE LANGUAGE: INNOVATING AND IMPROVING COMMUNICATION ABOUT WINE	<p>The doctoral candidate will be involved in four types of activities:</p> <ol style="list-style-type: none"> 1. study of linguistic corpora (in order to identify the terms most commonly used to describe the sensory properties of the typical Marche Region wines); 2. research carried out with non-expert Italian adult participants (using both on-line questionnaires and in person data collection sessions, at events organized by the project partner companies) and with expert participants (ONAV/AIS). The aim of these research activities is twofold: first, to test the shared comprehension of the terms most frequently used to describe wine sensory properties; second, to explore the possibility of new "geometric" terminologies; 3. transposition of the data emerged from the analyses of verbal language into simulations of potential labels for wine bottles, and verification of their perception by expert and non-expert participants. This part of the research will involve both an Italian and an international sample of participants (part of this research phase will be carried out by the doctoral student during the period abroad); 4. production of ad hoc materials for disseminating the results of the project (part of this activity will be carried out during the 10 months of research activity carried out in the Company partner of the Research Project). <p>Obligations for scholarship holder: the PhD student must compulsorily carry out study and research activities abroad for a period of not less than (six) months at the University of Lund; the PhD student must compulsorily carry out applied research, in one or more companies belonging to the project partner Cluster, from 6 to 18 months.</p>

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<p>UT1/ DIGITAL HUMANITIES PER LA RICERCA LETTERARIA E LINGUISTICA</p> <p>ARTIFICIAL INTELLIGENCE FOR THE SEMANTIC ANALYSIS OF VISUAL MEDIA IN ARCHIVAL STUDIES</p>	<p>The program includes activities aimed at applying and developing new models based on Artificial Intelligence (AI), such as Large Vision Language Models (LVLM), for the automatic interpretation of media in the field of Library and Information Science (LIS), where historically, manual input by operators into knowledge representation systems has been the norm. The main activities planned are:</p> <ul style="list-style-type: none"> • studying the state of the art to identify the latest practices and methodologies for visual media analysis in archival contexts on one hand, and AI-based semantic investigations on the other; • developing and implementing AI algorithms in the LIS context to identify common narrative patterns, improve understanding, and assist operators in describing and retrieving information, with the ultimate goal of integration with existing standards; • producing scientific articles and outreach materials to disseminate the project's results. <p>All activities will also be carried out in collaboration with the University's international partners, both academic and industrial, as part of the cluster.</p> <p>Obligations for scholarship holder: the PhD student must compulsorily carry out study and research activities abroad for a period of not less than (six) months; the PhD student must compulsorily carry out applied research, in one or more companies belonging to the project partner Cluster, from 6 to 18 months.</p>
<p>SUBJECTS ON WHICH THE INTERVIEW HINGES</p>	<p>Presentation and critical discussion of the research project; assessment of the candidate's knowledge related to the research topic chosen; foreign language proficiency.</p>
<p>INTERVIEW ASSESSMENT CRITERIA</p>	<ol style="list-style-type: none"> 1. Originality and logical development of the project in relation to the chosen research topic 2. Assessment of the educational and working profile, including outside the academic context 3. Experience in terms of national and international mobility, congruent with the candidate's curriculum and the project submitted 4. Proficiency test concerning the knowledge of the stated foreign language/s 5. Consistency of prior study with the chosen research topic
<p>SPECIFIC REQUIREMENTS</p>	<p>Knowledge of at least one foreign language, from among English, Spanish and French.</p>