



# Public Competition for Admission to Doctoral Research Programmes at the University of Milan - a. y. 2024/2025

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Dir. DF/FTLI

## PUBLIC COMPETITION FOR ADMISSION TO DOCTORAL RESEARCH PROGRAMMES AT THE UNIVERSITY OF MILAN - A. Y. 2024/2025

### THE RECTOR

- Having regard to Ministerial Decree no. 270, dated 22 October 2004, entitled “Amendments to Regulation no. 509 containing rules governing the educational autonomy of Universities, passed by a Decree of the Ministry for Universities and Scientific and Technological Research on 3 November 1999”;
- Having regard to art. 4 of Law no. 210 dated 3 July 1998, as amended by art. 19, paragraph 1, of Law no. 240 dated 30 December 2010;
- Having regard to Regional Law no. 33, dated 13 December 2004, entitled “Rules governing regional measures to ensure the right to study at university”, which makes provisions for services in favour of students enrolled in doctoral programmes;
- Having regard to Ministerial Decree no. 226 dated 14 December 2021, entitled “Regulations concerning the accreditation methods of doctoral locations and programmes and the criteria for the institution of doctoral programmes by accredited bodies”;
- Having regard to Law no. 33 dated 12 April 2022, entitled “Provisions on simultaneous enrolment in two higher education programmes”, and in particular article 4, paragraph 1;
- Having regard to art. 1 of Ministerial Decree no. 930 dated 29 July 2022, which states that “starting from the academic year 2022/2023, Universities shall include in their academic regulations general provisions to facilitate the simultaneous enrolment of students”;
- Having regard to the Statute of the University of Milan, issued by Rector’s Decree of 15 March 2012, as subsequently amended;
- Having regard to the University Regulation for PhD Programmes and Students, issued by Rector’s Decree of 5 June 2015, as subsequently amended;
- Having regard to Ministerial Decrees protocol no. 808 of 28 November 2018, protocol no. 917 of 15 October 2019 and protocol no. 555 of 28 August 2020, whereby the Ministry of University and Research (MUR), pursuant to Ministerial Decree 45/2013, granted five-year accreditation to the doctoral research programmes proposed by the University of Milan, subject to ongoing compliance with the prescribed requirements;
- Having regard to Ministerial Decrees protocol no. 970 of 23 July 2021 and no. 1120 of 30 August 2023, whereby the Ministry of University and Research (MUR), pursuant to Ministerial Decree 226/2021, granted five-year accreditation to the doctoral research programmes



proposed by the University of Milan, subject to ongoing compliance with the prescribed requirements;

- Considering that the University intends to institute a new cycle of doctoral programmes for the academic year 2024/2025;
- Having regard to the note of the Ministry of University and Research of 2 May 2024, protocol no. 8614;
- Having regard to the resolutions adopted by the Academic Senate and the Board of Directors during their meetings of 14 and 28 May 2024, concerning the institution of the 40<sup>th</sup> doctoral cycle;
- Having regard to Rector's Decree no. 3712/24 dated 29 May 2024, regarding authorisation to enter into agreements with institutions and companies wishing to fund doctoral scholarships;
- Having regard to Ministerial Decree no. 630 dated 24 April 2024, establishing provisions regarding the institution, for the academic year 2024/2025, of three-year doctoral scholarships to be funded under Italy's National Recovery and Resilience Plan (PNRR), Mission 4 "Education and research", Component 2 "From research to business" - Investment 3.3 "Introduction of innovative doctorates responding to the innovation needs of companies and promotion of recruiting researchers from businesses", for students attending doctoral programmes accredited pursuant to Ministerial Decree no. 226/2021;
- Having regard to Ministerial Decree no. 629 dated 24 April 2024, establishing provisions regarding the institution, for the academic year 2024/2025, of three-year doctoral scholarships to be funded under Italy's National Recovery and Resilience Plan (PNRR), Mission 4, Component 1 "Strengthening the provision of education services: from nurseries to universities" - Investment 3.4 "Advanced university education and skills" and Investment 4.1. "Extension of the number of doctorates and innovative doctorates for Public Administration and cultural heritage", for students attending doctoral programmes accredited pursuant to Ministerial Decree no. 226/2021;
- Without prejudice to the fact that, pending checks by the Ministry of University and Research (MUR) to verify that research projects are admissible for PNRR funding, the admission of applicants selected as recipients of scholarships established under Ministerial Decrees 630/2024 and 629/2024 is subject to the successful outcome of such admissibility checks, and to the actual allocation of ministerial funds;

#### HEREBY DECREES AS FOLLOWS:

#### **Art. 1 - Institution of doctoral research programmes**

Subject to accreditation by MUR and checks to verify ongoing compliance with accreditation requirements, the following doctoral research programmes are instituted at the University of Milan for the academic year 2024/2025 (40<sup>th</sup> cycle - start dates are specified in each programme specification):

- Agricoltura, ambiente e bioenergia - Agriculture, Environment and Bioenergy



- Biologia molecolare e cellulare - Molecular and Cellular Biology
- Chimica - Chemistry
- Chimica industriale - Industrial Chemistry
- Diritto comparato, privato, processuale civile e dell'impresa - Comparative, Private, Civil Procedural and Business Law
- Diritto pubblico, internazionale ed europeo - Public, International and European Union Law
- Filosofia e scienze umane - Philosophy and Human Sciences
- Fisica, astrofisica e fisica applicata - Physics, Astrophysics and Applied Physics
- Informatica - Computer Science
- International and Public Law, Ethics and Economics for Sustainable Development - LEES
- Medicina sperimentale - Experimental Medicine
- Medicina traslazionale - Translational Medicine
- Ricerca clinica - Clinical Research
- Scienze ambientali - Environmental Sciences
- Scienze del patrimonio letterario, artistico e ambientale - Literature, Arts and Environmental Heritage
- Scienze della nutrizione - Nutritional Sciences
- Scienze della Terra - Earth Sciences
- Scienze farmaceutiche - Pharmaceutical Sciences
- Scienze farmacologiche biomolecolari, sperimentali e cliniche - Pharmacological Biomolecular Sciences, Experimental and Clinical
- Scienze giuridiche "Cesare Beccaria" - Legal Studies "Cesare Beccaria"
- Scienze matematiche - Mathematical Sciences
- Scienze per i sistemi alimentari - Food Systems
- Scienze per la sanità pubblica - Public Health Sciences
- Scienze veterinarie e dell'allevamento - Veterinary and Animal Science
- Studi linguistici, letterari e interculturali in ambito europeo ed extra-europeo - Linguistic, Literary and Intercultural Studies in European and Extra-European Perspectives
- Studi storici - Historical studies
- Studi sulla criminalità organizzata - Studies on Organized Crime

Public competitions for admission to the above doctoral research programmes, based on qualifications and exams, are hereby announced by the University of Milan; the programme specifications annexed to this decree, which are an integral part of this document, contain a brief



description of the programmes and a link to the pages of the University website where applicants can view the proposed research topics for each programme, as identified by the competent Faculty of Instructors based on the objectives of the programme and its research and educational focus. Research topics are selected in the times and manner specified in art. 25 of the University Regulation for PhD Programmes and Students.

The number of scholarships may be increased, should external funding become available before the application deadline specified in this competition for admission.

In accordance with Ministerial Decrees 629/2024 and 630/2024, the number of scholarships may also be increased if, at the end of the selection process, the Ministry issues an ad-hoc decree quantifying and redistributing any additional funds that have become available in the interim for the 40<sup>th</sup> doctoral cycle, as well as any residue funds from the 38<sup>th</sup> and 39<sup>th</sup> cycle.

PNRR scholarships are not awarded to applicants who have already accepted and foregone a PNRR scholarship for the 38<sup>th</sup> or 39<sup>th</sup> cycle (scholarships established under Ministerial Decrees 351/2022, 352/2022, 117/2023 and 118/2023).

Foreign applicants who are in receipt of scholarships issued by their country of origin may be admitted in excess of the enrolment quota if they pass the admission exams set out in this decree.

## Art. 2 - Admission requirements

Applicants in possession of a second-cycle degree (*Laurea magistrale*), an equivalent qualification or a qualification equivalent to the level of studies (Master's Degree) awarded by a foreign university, may apply for admission to the doctoral research programmes stated in the preceding article.

The suitability of the foreign academic qualifications in terms of content is evaluated by the Admission Committee of each doctoral programme, in compliance with the regulations in force in Italy and in the country in which the academic qualification was issued, and with the international treaties or agreements on the recognition of qualifications for the continuation of studies.

Applicants who have not yet obtained their second-cycle degree (*Laurea magistrale*) may also apply, but they are required to earn the second-cycle degree by the programme starting date, as specified in the programme specifications annexed to this decree, otherwise they will be excluded from the programme.

## Art. 3 - Application for admission

Applicants must apply for admission by **2 pm on 27 June 2024**, by following the instructions below:

1. [Register on the University portal](#) (this step is not required for those already registered on the portal or in possession of UNIMI login credentials or a SPID identity);
2. Log in and submit an application for admission via the [Doctoral programme admission services](#);



3. At the end of the online application process, and in any case by the deadline for admission, pay a non-refundable €50.00 application fee;
4. Upload the following documents as .pdf, .rtf or .jpg files, all under 10 MB:
  - A. Diploma Supplement or Bachelor's and Master's diplomas (or equivalent qualification obtained in Italy or abroad), with transcript of records. Applicants who have yet to obtain their Master's degree are required to submit a certificate of enrolment in lieu of the diploma. All documents must be in Italian, English, French, German or Spanish.  
Self-drafted affidavits are accepted as and where provided for by the laws in force.  
Applicants who have completed or are about to complete their studies at the University of Milan do not need to upload any certificates/diplomas attesting to such studies, as these documents will be acquired internally;
  - B. CV, describing any professional experience and other qualifications held by the applicant;
  - C. Research project (using [Form 1 attached hereto](#));
  - D. Copy of passport (foreign applicants only);
  - E. Publications in Italian or English (if any);
  - F. [Annex A](#);
  - G. Online interview request (if desired; please use [Form 3](#) attached).

**Failure to provide even just one of the documents from A to C above will result in the applicant being excluded from the competition.**

In addition to the above documents, if so provided for in the programme specification, applicants must provide one or more reference letters from qualified persons who have had a role in their education. Reference letters must be drafted using [Form 2](#) attached hereto and e-mailed directly by said persons, in .pdf format, to the email address indicated in the programme specification, **by the application deadline (27 June 2024)**. In any case, applicants may include reference letters drafted as indicated above in their online application for admission. Reference letters are considered when assessing the applicant's curriculum and no extra point is awarded for them.

**Non-EU applicants** residing abroad are also required to submit an online application for pre-enrolment through [Universitaly](#), in order to obtain a student visa.

**The online application cannot be modified or supplemented with further documentation once it has been confirmed.**

It is possible to apply for any number of doctoral programmes, provided that the applicant registers properly for each programme, as described above, including payment of the non-refundable fee of €50.00 for each application submitted.



## Art. 4 - Applicants with disabilities

In order to ensure equal treatment of applicants, those holding a certificate of disability (*invalidità civile*) and/or handicap pursuant to Law 104/1992 may apply for accommodations by writing to COSP Disability services ([ausili.ammissioni@unimi.it](mailto:ausili.ammissioni@unimi.it)) at least 15 days before the interview, and attaching the certificate issued by the competent public health office. Applicants holding outdated certificates are required to apply for an updated certificate, to be submitted after enrolment for the purposes of using disability accommodations as offered by the University.

## Art. 5 - Applicants with SLD

In order to ensure equal treatment of applicants, those holding a Specific Learning Disorders (SLD) certificate issued by the National Health Service, a private affiliated centre, or a private specialist (with a compliance certificate from the competent health authority) pursuant to Law 170/2010, are required to email their certificate to COSP SLD Services ([ausili.ammissioni@unimi.it](mailto:ausili.ammissioni@unimi.it)) at least 15 days before the interview. If the SLD was diagnosed in childhood, and the certificate is over three years old, students should apply for an updated certificate, to be submitted after enrolment for the purposes of using SLD accommodations as offered by the University.

## Art. 6 - Admission exam

Admission to the doctoral programmes is through a public selection procedure involving the evaluation of qualifications and tests for the comparative assessment of applicants. Applications are vetted by Admission Committees appointed in compliance with current regulations.

Selection stages:

- assessment of the CV (max. 20 points) and research project (max. 10 points);
- interview (max. 70 points).

Only applicants who obtain at least 10 points for the CV and at least 5 points for the research project are called for the interview.

The selection process aims to ascertain the applicants' prior knowledge, skills, aptitude for scientific research and personal motivations. Applicants are selected based on an **assessment of their CV** and a **research project**, which may or may not be inspired by the work of the second-cycle degree thesis, as well as on an **interview held either in person or online**, as stated in the programme specification.

**The research project, which must be drafted using [Form 1 attached hereto](#), is only for selection purposes and does not limit the choice of the doctoral thesis in the case of admission.**

The applicant's CV and research project are assessed before the interview. Applicants will be able to see the result of this assessment on the [University portal](#), on the programme webpage.



When assessing the CV, the Committees take into account the applicant's university studies, publications, professional experience and other qualifications, if any. In assigning points for the CV, the Committees consider the statistical distribution of exam grades for the study programme courses, as well as the conditions and the period over which the applicant has obtained his/her qualifications.

The interview is public; interview dates will be posted on the University portal following the assessment of qualifications. The aim of the interview is to verify the applicant's knowledge of topics germane to the educational and scientific contents of the doctoral programme. The interview includes a seminar-style presentation of the proposed research project, followed by a general discussion to verify the applicant's expertise, scientific qualities and motivations.

The interview is conducted in the language indicated in the programme specifications; in any case, applicants may ask to be interviewed in English.

To take the interview, applicants must present one of the following identity documents:

- Identity card;
- Passport;
- (Italian) driving licence.

**The outcome of the interview process will be communicated by the Committee at the end of the interviews.**

At the end of the interviews, the Committee draws up a general ranking list according to the total score assigned to each applicant for their CV, research project and interview.

**The minimum pass score is 70/100.**

**The general ranking is published on the [Postgraduate admission rankings page](#) within a few days after the interviews.**

The Committees must conclude their work by the day after the last interview.

## **Art. 7 - Admission to the doctoral programmes**

Applicants are admitted to the programmes according to their position in the ranking list, until all places available for each doctoral programme are filled. Where applicants achieve the same score, preference will be given to the younger applicant, with the exception of the priority criterion for doctoral scholarships set forth in art. 9 of this call for applications. The rankings of eligible applicants will be published within a few days of the interviews, on the [Postgraduate admission rankings page](#) of the University website.

**Such ranking posted on the University website constitutes notification to the interested parties, who will not receive any written notice.**

Admitted applicants who do not enrol by the deadline lose their right to enrol in the programme. Their place is then given to the next applicant in the ranking list. This also applies if an admitted applicant withdraws from the programme during the first three months. If the withdrawing student



has already received any monthly scholarship payments, he/she is required to return them. Takeover applicants will be contacted personally by email by the Student Office for PhD Programmes (*Segreteria Dottorati*), which will provide instructions and deadlines for enrolment. Applicants who rank high enough for admission into multiple programmes may only matriculate into one.

**Simultaneous enrolment** in two academic programmes is allowed within the limitations provided for by current regulations, and must be assessed and approved by the competent bodies.

More specifically, simultaneous enrolment in a doctoral programme and a postgraduate medical school is subject to the provisions of Ministerial Decree no. 226 of 14 December 2021.

For information on how to apply for simultaneous enrolment in two programmes, please visit the following link: [Simultaneous enrolment in two higher education programmes | University of Milan \(unimi.it\)](#)

## Art. 8 - Enrolment

Admitted applicants must enrol by the established deadline, which will be published on the [University website](#), on each programme webpage (as linked in the 40<sup>th</sup> cycle - 2024/25 section).

**Such notice constitutes notification to the interested parties.**

Admitted applicants must enrol using the [Sifa online enrolment services](#), and following the instructions published on the [University website](#).

**Those who have yet to obtain their Master's degree** must notify this to the University by writing to [InformaStudenti](#) > Postgraduate > Doctoral research (PhD).

Applicants are admitted conditionally and may be excluded from the programme if they are found not to meet the requirements.

Those enrolled in doctoral programmes must pay the annual regional tax for the Education Incentive Programme in the amount of €140.00, plus a €16.00 stamp duty and a €15.50 insurance premium.

Students with a disability at or above 66% and/or a recognised handicap pursuant to Law no. 104/92 will have the regional tax and insurance premium waived, provided that they submit an application for exemption; these students are only required to pay the €16.00 stamp duty.

Enrolment fees are non-refundable, even if a student withdraws from the doctoral programme.

**Applicants holding a foreign qualification** are required to upload the following documents when completing the online enrolment process:

- original degree certificate legalised by the competent authorities of the issuing country, with an official translation into Italian;
- Declaration of Value (*Dichiarazione di Valore in loco*) issued by the Italian Embassy in the country where the degree was obtained, or Statement of Comparability issued by the Italian ENIC-NARIC centre (CIMEA), or another ENIC-NARIC centre. Instead of the CIMEA Statement



of Comparability, applicants may provide a Statement of Correspondence downloaded from ARDI (Automatic Recognition Database Italia) along with a CIMEA Statement of Verification.

During the online enrolment process, **non-Italian citizens** must also upload the following:

- Italian tax ID (*codice fiscale*, for both EU and non-EU citizens)
- valid residence permit (only for non-EU citizens);
- University pre-enrolment application receipt (only for non-EU citizens residing abroad);
- student visa (only for non-EU citizens residing abroad).

Applicants who are not in possession of one or more of these documents when enrolling online must produce the missing documents **by 28 November 2024**, via the Enrolment documents integration service.

The validity of foreign qualifications is verified upon submission of the official documents. Until then, applicants are admitted to the programme conditionally, and may be excluded from the ranking if they are found not to meet the requirements.

## Art. 9 - Scholarships

Scholarships are awarded in accordance with and by the methods established by the laws in force, based on the student's ranking. The gross amount of the scholarship is **€16,350.00** per year.

The scholarship is not subject to IRPEF (personal income tax) in accordance with art. 4 of Law no. 476 of 13 August 1984, and is subject to the social security provisions set forth in art. 2, paragraph 26 et seq., of Law no. 335 of 8 August 1995, as subsequently amended.

Working students falling into the categories appearing in art. 26 of the University Regulation for PhD Programmes and Students will be eligible to apply, provided their working income does not exceed the scholarship amount. Income under the limitation is defined as gross earnings during the year to which the scholarship is principally allocated.

In the event of applicants ranked equally, scholarships are awarded by assessing the applicant's economic situation according to the ISEE (Equivalent Economic Situation Indicator).

Scholarships have a yearly duration and are renewed if the Faculty of Instructors promotes the student to the following year, after ascertaining that he/she has correctly and successfully completed the programme of activities in the previous year.

Starting from the first year, in addition to the scholarship and depending on the University's financial resources, each doctoral student is given a budget for research activity in Italy and abroad suited for the type of programme, and in any case amounting to no less than 10% of the amount of the scholarship itself.

## Art. 10 - Scholarships established under Ministerial Decree 629/2024

Should this call for applications provide for the allocation of scholarships established under Ministerial Decree 629/2024 and funded under Italy's National Recovery and Resilience Plan



(PNRR), these scholarships will be instituted to facilitate the advancement of research on the following subjects: digital and environmental transition; PNRR topics (digitalisation, innovation, competitiveness, culture and tourism; green revolution and ecological transition; sustainable mobility; education and research; inclusion and cohesion; health); Public Administration; cultural heritage.

Applicants selected as recipients of scholarships established under Ministerial Decree 629/2024 must comply with the obligations set forth in said decree, which requires them, *inter alia*, to:

- a) complete the entire PhD programme at the administrative and operational facilities of the University, except for any study and research stays at public administrations, companies or research centres and any periods abroad, all of which must be planned in accordance with the training and research activities scheduled at the University;
- b) study and conduct research at companies, research centres or public administrations, including museums, institutes and training institutions under the Ministry of Culture (e.g. *Fondazione scuola dei beni e delle attività culturali* and other schools for advanced studies), archives and libraries for a minimum of 6 months and up to 12 months (not necessarily in a row) during the three years of the programme;
- c) study and conduct research abroad for a minimum of 6 months (not necessarily in a row) and up to the maximum number of months specified in art. 9, paragraph 3, of Decree no. 226 of the Ministry of University and Research dated 14 December 2021, during the three years of the programme;
- d) produce a report detailing their time commitment (in terms of months spent at a company or research centre or public administration, at the home University and abroad) and a summary of the activities undertaken, along with a declaration that said activities comply with the “Do No Significant Harm” principle.

Those referred to under b) and c) are two separate types of study and research stays, and must be completed at different host organisations.

### **Art. 11 - Scholarships established under Ministerial Decree 630/2024**

This call for applications provides for the allocation of scholarships established under Ministerial Decree 630/2024, to be funded under Italy’s National Recovery and Resilience Plan (PNRR). These scholarships are instituted to facilitate the advancement of research on topics covered by innovative doctorates responding to the innovation needs of companies and promoting the recruitment of researchers by businesses.

Applicants selected as recipients of scholarships established under Ministerial Decree 630/2024 must comply with the obligations set forth in said decree, which requires them, *inter alia*, to:

- a) complete the entire PhD programme at the administrative and operational facilities of the University, except for the study and research periods to be completed at a company and abroad, all of which must be planned in accordance with the training and research activities scheduled at the University;
- b) study and conduct research at a company for a minimum of 6 months and up to 18 months (not necessarily in a row), during the three years of the programme;



- c) study and conduct research abroad for a minimum of 6 months (not necessarily in a row) and up to the maximum number of months specified in art. 9, paragraph 3, of Decree no. 226 of the Ministry of University and Research dated 14 December 2021, during the three years of the programme;
- d) produce a report detailing their time commitment (in terms of months spent at the company, at the home University and abroad) and a summary of the activities undertaken, along with a declaration that said activities comply with the “Do No Significant Harm” principle.

Those referred to under b) and c) are two separate types of study and research stays, and must be completed at different host organisations.

## Art. 12 - Civil servants

Pursuant to art. 12, paragraph 5, of Ministerial Decree 226/21, civil servants admitted to a doctoral programme may be granted a leave as contemplated by the applicable collective agreement, or, for those employed under public law, an extraordinary leave for study purposes, for the standard duration of the programme – provided that such leave does not conflict with the needs of the employing administration, as per art. 2 of Law no. 476 dated 13 August 1984 – but only if this is the first time that they enrol in a doctoral programme, independently of the programme subject area; the leave may be paid or unpaid, subject to the civil servant’s right to explicitly forego the scholarship. This does not affect their right to receive a budget for research activities in Italy and abroad, as per art. 9, paragraph 4, of Ministerial Decree 226/21.

## Art. 13 - Obligations of doctoral students

The rights and obligations of doctoral students are regulated by **articles 26 and 27** of the **University Regulation for PhD programmes and Students**. Please bear in mind the following:

- Doctoral research programmes entail **1,500 hours of training-education and research activities** per year. A full-time commitment is required of each student for the whole duration of the programme.
- In order to obtain their PhD, doctoral students **are required to demonstrate English proficiency at level B2** of the Common European Framework of Reference for Languages (CEFR).

To meet the language proficiency requirement, doctoral students must submit an English certificate from one of the certifying bodies recognised by the University (see <https://www.unimi.it/en/study/language-proficiency/placement-tests-and-english-courses/accepted-language-certificates>), at B2 level or above, **by the end of the first programme year**.

**An exemption from submission of a language certificate is granted only to:**

- those who, by the beginning date of the course, have earned a Master’s degree featuring an English-language specialisation in one of the following Master’s degree classes: LM-37 Modern American and European languages and literature, LM-38 Modern languages for



communication and international cooperation, LM-39 Linguistics, LM-94 Interpreting and specialised translating, or equivalent Master's degree;

- those who, by the beginning date of the course, have earned a Master's degree in a programme taught entirely in English;
- those who, during their prior study programme, have earned a B2 English language statement issued by SLAM - University of Milan Language Centre.

No other exemptions will be granted.

#### **Art. 14 - Award of the degree**

The degree of Doctor of Philosophy, abbreviated as “Dott. Ric.” or “Ph.D.”, is awarded in accordance with the provisions of art. 27 of the University Regulation for PhD Programmes and Students.

#### **Art. 15 - Processing of personal data**

Pursuant to Legislative Decree no. 196 of 30 June 2003, as amended by Legislative Decree no. 101 of 10 August 2018, as well as Regulation (EU) 2016/679 (General Data Protection Regulation, GDPR), the University undertakes to respect the confidential nature of the information provided by applicants. All data provided will be processed solely for purposes related and instrumental to the competition and to manage the applicant's relationship with the University, where necessary, in compliance with current laws.

#### **Art. 16 - Applicable laws and regulations**

Any items for which no specific provision has been made in this call for applications shall be regulated in accordance with the Italian laws and regulations governing doctoral programmes.

#### **Art. 17 - Person in charge of the procedure and contacts**

Pursuant to Law no. 241 of 7 August 1990, the person in charge of the procedure set forth in this call for applications is Ms Monica Delù (Head of the Post-Graduate Programmes and International Students Services Sector).

For further information or clarifications please use the [InformaStudenti](#) service, selecting the category: Postgraduate > Doctoral research (PhD).

Milan, 29 May 2024

THE RECTOR  
(signed Elio Franzini)



**UNIVERSITÀ  
DEGLI STUDI  
DI MILANO**

MISSIONE 4  
ISTRUZIONE  
RICERCA



**Finanziato  
dall'Unione europea**  
NextGenerationEU

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Art. 3 amended by Rectoral Decree No. 3948/24 of 7 June 2024

Art. 13 amended by Rectoral Decree No. 3975/24 of 10 June 2024



## Doctoral programme in Agriculture, Environment and Bioenergy

### Learning objectives

Our planet is experiencing a decline in its non-renewable resources and is exposed to risks deriving from climate change. The agricultural sector must supply food, non-food products, ecosystemic services and energy, whilst guaranteeing safety and food sovereignty. It is therefore essential to develop advanced training courses in order to achieve efficiency and sustainability in the agricultural sector and its various territorial contexts, taking into account the various elements of the production system and their organisation in agro-ecosystems. Reference will be made to:

- a) Phenotypic and genotypic features and the valorisation of genetic resources;
- b) Containment of biotic and abiotic adversities;
- c) Implementation of predictive IT models;
- d) Bioenergy production, use of residual substances, soil and water resource conservation;
- e) Analysis and management of technical means, agricultural processes, multi-functionality of rural areas and of agrobiodiversity.

The programme will enable researchers to:

- a) Develop autonomous research;
- b) Prepare and propose public and private research projects on a local, national and international level;
- c) Identify research needs and their scientific, social and economic relevance;
- d) Transfer knowledge through teaching activities and the presentation of data and results;
- e) Deploy research results in the public and private sectors.

The doctoral programme is entirely in English.

### Academic disciplines

05/A (Plant biology)

07/A (Agricultural economics and appraisal)

07/B (Agricultural and forest systems)

07/C (Agricultural, forest and biosystems engineering)

07/D (Plant pathology and entomology)

07/E (Agricultural chemistry, agricultural genetics and pedology)

07/G (Animal science and technology)

10/A (Archaeological sciences)

### Research topics

Research topics are available on the [University website](#).

### Duration

3 years



**Starting date**

1 October 2024

**Places available**

10

**Scholarships**

7 University of Milan

1 scholarship funded by BrianzAcque Srl for the research project: “SUDS (Sustainable Urban Drainage Systems) - Study of instruments for the integrated and sustainable stormwater management through green areas and Nature Based Solutions”

1 scholarship funded by CREA for the research project: “Physiological, genetic and molecular basis of barley response to drought stress”

1 scholarship co-funded by Digital Drop srl under Ministerial Decree 630/2024 for the research project: “Advanced Methodologies for Planning and Managing Water for Irrigation”. Lead instructor: Prof. Claudio Gandolfi (CUP G43C24000800006)

**Doctoral programme coordinator**

Prof. Salvatore Roberto Pilu, associate professor in scientific-disciplinary sector AGR/07  
salvatore.pilu@unimi.it

**Admission requirements**

Degree obtained in one of the following classes under Ministerial Decree 270/2004, or in one of the corresponding classes under Ministerial Decree 509/99:

LM-1 Cultural Anthropology and Ethnology

LM-2 Archaeology

LM-3 Landscape Architecture

LM-6 Biology

LM-7 Agrarian Biotechnologies

LM-8 Industrial Biotechnologies

LM-9 Pharmaceutical, Veterinary and Medical Biotechnologies

LM-11 Science for Conservation of Cultural Heritage

LM-17 Physics

LM-18 Computer Science

LM-26 Safety Engineering

LM-30 Energy and Nuclear Engineering

LM-32 Computer Systems Engineering

LM-33 Mechanical Engineering



- LM-35 Environmental Engineering
- LM-40 Mathematics
- LM-42 Veterinary Medicine
- LM-44 Mathematical Modelling for Engineering,
- LM-48 Regional, Urban and Environmental Planning
- LM-53 Materials Engineering
- LM-56 Economics
- LM-60 Natural Sciences
- LM-69 Agriculture
- LM-70 Food Science
- LM-73 Environmental and Forestry Sciences
- LM-74 Geology
- LM-75 Environmental and Land Sciences
- LM-76 Environmental and Cultural Economics
- LM-77 Management
- LM-81 Development Cooperation
- LM-82 Statistics
- LM-86 Livestock Management

**Selection stages – Doctoral programme in Agriculture, Environment and Bioenergy**

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment*

The date and outcome of the qualification assessment will be posted on the [University website](#), on the programme webpage, before the start date of the interviews.



*Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the University website, on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview will be in English.



## Doctoral programme in Molecular and Cellular Biology

### Learning objectives

The doctoral programme aims to:

- train scientific experts with excellent skills in the field of biomolecular sciences and biotechnology;
- promote a molecular approach to the study of complex biological problems in model organisms (prokaryotic and eukaryotic microorganisms, animals and plants);
- encourage collaboration between research institutes, advanced training schools and companies in the fields of biomolecular sciences and biotechnology;
- encourage internationalisation by promoting international scientific collaborations, involving foreign lecturers, recruiting postgraduate students from abroad, and organising co-tutored dissertations involving study periods abroad.

Training activities will be characterised by:

- a multidisciplinary approach;
- interactivity;
- links to the business world;
- internationalisation.

A key element of the programme is the direct involvement of doctoral students in experimental research activities. Students will work full-time on a research project, providing critical insight and suggestions, and thereby acquiring scientific and organisational independence.

The doctoral programme is entirely in English.

### Academic disciplines

01/B (Informatics)

02/D (Applied physics, physics teaching and history of physics)

05/A (Plant biology)

05/B (Animal biology and anthropology)

05/D (Physiology)

05/E (Experimental and clinical biochemistry and molecular biology)

05/F (Experimental biology)

05/G (Experimental and clinical pharmacology)

05/H (Human anatomy and histology)

05/I (Genetics and microbiology)



06/A (Pathology and laboratory medicine)

**Research topics**

Research topics are available on the [University website](#).

**Duration**

3 years

**Starting date**

1 November 2024

**Places available**

7

**Scholarships**

6 University of Milan

1 scholarship funded by Fondazione IRCCS Istituto Neurologico Carlo Besta for the research project: "Flourish or perish: pro-regenerative epigenetic programme to sustain axonal sprouting of peripheral nerves"

**Doctoral programme coordinator**

Prof. Roberto Mantovani, full professor in scientific-disciplinary sector BIO/18

[mantor@unimi.it](mailto:mantor@unimi.it)

**Admission requirements**

Degree obtained in one of the following classes under Ministerial Decree 270/2004, or in one of the corresponding classes under Ministerial Decree 509/99:

LM-6 Biology

LM-7 Agrarian Biotechnologies

LM-8 Industrial Biotechnologies

LM-9 Pharmaceutical, Veterinary and Medical Biotechnologies

LM-11 Science for Conservation of Cultural Heritage

LM-13 Pharmacy and Industrial Pharmacy

LM-17 Physics

LM-18 Computer Science

LM-21 Biomedical Engineering

LM-22 Chemical Engineering

LM-32 Computer Systems Engineering



LM-40 Mathematics  
LM-41 Medicine  
LM-42 Veterinary Medicine  
LM-54 Chemistry  
LM-56 Economics  
LM-60 Natural Sciences  
LM-61 Nutrition  
LM-66 Computer Systems Safety  
LM-68 Sport Science  
LM-69 Agriculture  
LM-70 Food Science  
LM-71 Industrial Chemistry  
LM-73 Environmental and Forestry Sciences  
LM-74 Geology  
LM-75 Environmental and Land Sciences  
LM-76 Environmental and Cultural Economics  
LM-82 Statistics  
LM-86 Livestock Management  
LM-91 Methods and Techniques for the Information Society  
LM/SNT2 Health Professions for Rehabilitation  
LM/SNT3 Health Professions for Technical Assistance  
LM/SNT4 Health Professions for Preventive Care

**Reference letters**

The Faculty of Instructors requires that 2 reference letters, drawn up according to [Form 2](#) attached hereto, be sent to the email address [maria.antacido@unimi.it](mailto:maria.antacido@unimi.it)

**Selection stages – Doctoral programme in Molecular and Cellular Biology**

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the [University website](#), on the programme webpage, before the start date of the interviews.



*Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the University website, on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview will be in English.



## Doctoral programme in Chemistry

### Learning objectives

The doctoral programme aims to train students in the critical analysis of scientific research problems in the field of chemistry, and to provide them with the skills required to identify and pursue important research objectives. The programme is designed to develop professionals who will be able to work in the industrial sector, in private and public research institutes, and in academia.

Students will acquire all the knowledge and working methods necessary to carry out research activities to very high scientific standards in any of the numerous interdisciplinary fields of Chemistry. The central role of Chemistry in modern life is widely acknowledged today. This field of science intersects with several other scientific disciplines (such as physics and biology) and therefore finds application in many different fields, from medicine to nanomaterials, from agriculture to energy, from biology to electronics, from cultural heritage conservation to environmental protection. The input of advanced chemical research is essential in many other scientific disciplines and for the development of production in modern countries.

Doctoral programmes in Chemistry are offered in the following lines of research:

Synthesis, reactivity, reaction mechanisms, catalysis;

Structural chemistry, spectroscopic analysis;

Theoretical and computational chemistry;

Solid-state, interphase and electrolyte chemistry;

Chemistry of biologically active compounds, food and natural substances, biocatalysis;

Chemistry of the environment and of cultural heritage;

Chemistry of materials, chemistry for nanotechnologies, supramolecular chemistry, chemistry for energy.

An important aspect of the programme is that students meet foreign researchers and come into contact with internationally renowned research institutes. To this end, a significant part of teaching activities is assigned to foreign lecturers and students are given the opportunity to spend time in research institutions abroad.

The doctoral programme is entirely in English.

Academic disciplines

03/A (Analytical and physical chemistry)

03/B (Inorganic chemistry and applied technologies)

03/C (Organic, industrial and applied chemistry)

03/D (Medicinal and food chemistry and applied technologies)



### Research topics

Research topics are available on the [University website](#)

### Duration

3 years

### Starting date

1 November 2024

### Places available

10

### Scholarships

9 University of Milan

1 scholarship co-funded by RSE Spa under Ministerial Decree 630/2024 for the research project “Photocatalysts synthesis, characterization and application in systems for H<sub>2</sub> and/or hydrogenated compounds production”. Lead instructor: Prof. Maria Vittoria Dozzi (CUP G43C24000820006)

### Doctoral programme coordinator

Prof. Daniele Passarella, full professor in scientific-disciplinary sector CHIM/06

[daniele.passarella@unimi.it](mailto:daniele.passarella@unimi.it)

### Admission requirements

Master’s degree of any class

### Reference letters

The Faculty of Instructors requires that 2 reference letters, drawn up according to [Form 2](#) attached hereto, be sent by email to the doctoral programme coordinator.

### Selection stages – Doctoral programme in Chemistry

#### *Submission of applications*

By 2 pm on 27 June 2024

#### *Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the [University website](#), on the programme webpage, before the start date of the interviews.

#### *Interviews*

The interview schedule – specifying the place, date and time of the interview for each candidate, the title of his/her research project and the interview mode (in person or online) – will be posted on the [University website](#), on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.



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The interview can be in Italian or English, at the applicant's choice. English proficiency will be assessed anyway.



## Doctoral programme in Industrial Chemistry

### Learning objectives

The general theme of the doctoral programme relates to the extensive field of application of chemistry to industrial processes. It aims to train students in understanding theoretical and practical problems, as well as economic, environmental and safety issues. Graduates will possess considerable scientific expertise and be able to organise and manage research activities, as well as analyse the aspects pertaining to variations in scale. The main research areas are: physical chemistry and catalysis in industrial processes; industrial electrochemistry and corrosion; synthesis, properties and structure of polymers; synthesis and processes of fine chemistry; synthesis, processes and control in primary chemistry; chemical biotechnology; innovative chemical processes; new structural and functional materials; innovative energy technologies; nanotechnologies.

An important aspect of the programme is that students meet foreign researchers and come into contact with internationally renowned research institutes. To this end, some teaching activities are assigned to foreign lecturers and students are given the opportunity to spend time in research institutions abroad.

The doctoral programme is entirely in English.

### Academic disciplines

03/A (Analytical and physical chemistry)

03/B (Inorganic chemistry and applied technologies)

03/C (Organic, industrial and applied chemistry)

09/D (Chemical and materials engineering)

### Research topics

Research topics are available on the [University website](#).

### Duration

3 years

### Starting date

1 November 2024

### Places available

5

### Scholarships

5 University of Milan



**Doctoral programme coordinator**

Prof. Dominique Roberto, full professor in scientific-disciplinary sector CHIM/03

[dominique.roberto@unimi.it](mailto:dominique.roberto@unimi.it)

**Admission requirements**

Master's degree of any class

**Reference letters**

The Faculty of Instructors requires that 2 reference letters, drawn up according to [Form 2](#) attached hereto, be sent by email to the coordinator.

**Selection stages – Doctoral programme in Industrial Chemistry**

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the [University website](#), on the programme webpage, before the start date of the interviews.

*Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the [University website](#), on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview can be in Italian or English, at the applicant's choice. English proficiency will be assessed anyway.



## Doctoral programme in Comparative, Private, Civil Procedural and Business Law

### Learning objectives

The programme aims to promote academic debate among experts in the different legal fields that characterise the PhD. These multiple subject areas give the programme an interdisciplinary character and at the same time, based on the existing links between the various disciplines, provide a common perspective that allows for a more fruitful dialogue between jurists of different specialisms. The main objective of the programme is to appropriately structure and link research training activities, focusing on comparative law with a view to intensifying interactions among those studying private law, business law (in its two forms, commercial/industrial and occupational) and civil procedural law. Special attention is given to training students in the methodological aspects of scientific research. Similarities between the different legal fields addressed by the programme will be examined thoroughly during cycles of lectures dedicated to cross-sector topics. As in the past, authorities in the field will be involved and collaborations with universities and foreign researchers will be intensified.

### Academic disciplines

12/A (Private law)

12/B (Commercial and labour law)

12/E (International, European Union, comparative, economic, market and maritime law)

12/F (Civil procedural law)

### Research topics

Research topics are available on the [University website](#).

### Duration

3 years

### Starting date

1 October 2024

### Places available

6

### Scholarships

6 University of Milan

### Doctoral programme coordinator

Prof. Giuseppe Ludovico, associate professor in scientific-disciplinary sector IUS/07

[giuseppe.ludovico@unimi.it](mailto:giuseppe.ludovico@unimi.it)

### Curricula

1. Private law
2. Comparative law
3. Commercial and industrial law
4. Labour law



5. Civil procedural law

**Admission requirements**

Applicants must have a degree in class LMG/01 – Law under Ministerial Decree 270/2004, or a degree in one of the corresponding classes under Ministerial Decree 509/99.

**Selection stages – Doctoral programme in Comparative, Private, Civil Procedural and Business Law**

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the [University website](#), on the programme webpage, before the start date of the interviews.

*Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the [University website](#), on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview can be in Italian or English, at the applicant's choice. English proficiency will be assessed anyway.



## **Doctoral programme in Public, International and European Union Law**

### **Learning objectives**

This doctoral programme aims to train highly qualified PhDs, equipped with the necessary research methodologies and able to critically process data and knowledge, through a coordinated study of topics with a common foundation in public law (constitutional law, administrative law, tax law). The programme includes studies of comparative law, and European and international law.

During the programme, doctoral students are expected to:

- gain a high-level skill set through an in-depth study of one of the research areas covered by the programme (public, international, and European law), featuring an interdisciplinary focus;
- acquire research methods and techniques specific to the field of law;
- design and carry out an original research project, predicated on strict adherence to the scientific method and a coherent structure, which contributes to expanding knowledge on a national and international level;
- develop their ability to convey their research findings (presenting findings at seminars and conferences, and in scientific journals).

### **Academic disciplines**

12/C (Constitutional and ecclesiastical law)

12/D (Administrative and tax law)

12/E (International, European Union, comparative, economic, market and maritime law)

### **Research topics**

Research topics are available on the [University website](#).

### **Duration**

3 years

### **Starting date**

1 October 2024

### **Places available**

7

### **Scholarships**

7 University of Milan

### **Doctoral programme coordinator**

Prof. Francesca Biondi, full professor in scientific-disciplinary sector IUS/08

[francesca.biondi@unimi.it](mailto:francesca.biondi@unimi.it)



## Curricula

1. International and European law
2. Constitutional and administrative law

## Admission requirements

Degree obtained in one of the following classes under Ministerial Decree 270/2004, or in one of the corresponding classes under Ministerial Decree 509/99:

LM-19 Information and Publishing Systems

LM-38 Modern Languages for Communication and International Cooperation

LM-48 Regional, Urban and Environmental Planning

LM-52 International Relations

LM-59 Advertising and Communication for the Public and Private Sectors

LM-62 Political Science

LM-63 Public Administration

LM-77 Management

LM-78 Philosophy

LM-81 Development Cooperation

LM-87 Social Services and Policies

LM-90 European studies

LM-91 Methods and Techniques for the Information Society

LMG/01 Law

## Selection stages – Doctoral programme in Public, International and European Union Law

<i>Submission of applications</i>	By 2 pm on 27 June 2024
<i>Qualification assessment date</i>	The date and outcome of the qualification assessment will be posted on the <a href="#">University website</a> , on the programme webpage, before the start date of the interviews.
<i>Interviews</i>	<p>The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the <a href="#">University website</a>, on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.</p> <p>The interview can be in Italian or English, at the applicant's</p>



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choice. English proficiency will be assessed anyway.



## Doctoral programme in Philosophy and Human Sciences

### Learning objectives

The doctoral programme in Philosophy and Human Sciences is a brand new higher education programme which integrates the skills required for theoretical and experimental research in disciplines such as anthropology, geography, linguistics, theory and history of political institutions, art theory and criticism with the knowledge acquired through philosophical inquiry across the full spectrum of its history and theory. The programme avails itself of the multi-disciplinary acumen of the Faculty, and aims to provide a high level of training in discrete areas of fundamental and applied research, encouraging research that moves into innovative and ground-breaking areas, and which requires the mastery of theories, methods, and techniques from a variety of fields. In particular, the programme aims to provide students with a solid philosophical and scientific grounding in one of the following research areas: (i) History of philosophical and scientific thought; (ii) Ethics and political thought (iii) Image theory and phenomenology of experience (iv) Theory of languages (v) Anthropology and territory.

### Academic disciplines

10/C (Cinema, music, performing arts, television and media studies)

10/G (Glottology and linguistics)

10/M (Germanic and Slavic languages, literatures and cultures)

11/A (History)

11/B (Geography)

11/C (Philosophy)

11/D (Pedagogy and educational theories)

14/B (Political history)

14/C (Sociology)

### Research topics

Research topics are available on the [University website](#).

### Duration

3 years

### Starting date

1 October 2024

### Places available

5



## Scholarships

3 University of Milan

2 for implementation of the project of the Department of Philosophy “Piero Martinetti” funded by the Ministry of University and Research (MUR) in the framework of the Departments of Excellence 2023-2027 call under Law no. 232 of 11 December 2016

## Doctoral programme coordinator

Prof. Niccolò Guicciardini Corsi Salviati, full professor in scientific-disciplinary sector M-STO/05

[niccolo.guicciardini@unimi.it](mailto:niccolo.guicciardini@unimi.it)

## Admission requirements

Master’s degree of any class

## Selection stages – Doctoral programme in Philosophy and Human Sciences

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the [University website](#), on the programme webpage, before the start date of the interviews.

*Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the [University website](#), on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview can be in Italian or English, at the applicant’s choice. English proficiency will be assessed anyway.



## Doctoral programme in Physics, Astrophysics and Applied Physics

### Learning objectives

The main theme of this doctoral programme is physics in advanced sectors of pure and applied research, with a focus on topics of excellence pursued by UniMI and INFN staff. Research covers all areas of modern physics, as indicated in the 5 curricula. The required basic training is ensured by a significant set of courses run specifically for the PhD programme and held by UniMI professors and INFN researchers, with final exams.

Students will also attend an international school and hold a public seminar when they return. The programme provides various opportunities for student discussion and exchange across different curricula. In particular, a doctoral workshop is organised at the end of each academic year. Training is supplemented by coordinated series of subject-specific conferences ("Physics Colloquia"). Doctoral students will have to undertake original research under the guidance of a tutor from the University or the INFN, and possibly a co-tutor. Each year they will present their progress in a seminar open to the entire UniMI and INFN scientific community. To support research activities, the programme offers internship opportunities at national and international INFN laboratories as well as corporate or institutional research laboratories in the field of physics and related technologies.

The doctoral programme is entirely in English.

### Partner institution

INFN Istituto Nazionale di Fisica Nucleare (Italian National Institute for Nuclear Physics)

### Academic disciplines

02/A (Physics of fundamental interactions)

02/B (Physics of matter)

02/C (Astronomy, astrophysics, Earth and planetary physics)

02/D (Applied physics, physics teaching and history of physics)

09/E (Electrical and electronic engineering and measurements)

01/B (Informatics)

### Research topics

Research topics are available on the [University website](#).

### Duration

3 years

### Starting date

1 October 2024



### Places available

16

### Scholarships

11 University of Milan

3 scholarships funded by INFN - Istituto Nazionale di Fisica Nucleare

1 scholarship funded by the Department of Physics “Aldo Pontremoli” for the research project: “Key resources and verification of bosonic computing”

1 scholarship co-funded by CNR-ICCOM (Institute of Chemistry of OrganoMetallic Compounds within the National Research Council) under Ministerial Decree 630/2024, for the research project: “Machine-Learning Interaction Potentials for activated processes”. Lead instructor: Prof. Francesca Baletto (CUP G43C24000830006)

### Doctoral programme coordinator

Prof. Aniello Mennella, full professor in scientific-disciplinary sector FIS/05

[aniello.mennella@unimi.it](mailto:aniello.mennella@unimi.it), [aniello.mennella@fisica.unimi.it](mailto:aniello.mennella@fisica.unimi.it)

### Curricula

1. Astrophysics
2. Condensed matter physics
3. Nuclear and particle physics
4. Theoretical physics
5. Applied physics

### Admission requirements

Degree obtained in one of the following classes under Ministerial Decree 270/2004, or in one of the corresponding classes under Ministerial Decree 509/99:

LM-6 Biology

LM-8 Industrial Biotechnologies

LM-9 Pharmaceutical, Veterinary and Medical biotechnologies

LM-11 Science for Conservation of Cultural Heritage

LM-13 Pharmacy and Industrial Pharmacy

LM-17 Physics

LM-18 Computer Science

LM-20 Aerospace and Astronautic Engineering

LM-21 Biomedical Engineering



- LM-22 Chemical Engineering
- LM-25 Automation Engineering
- LM-26 Safety Engineering
- LM-27 Telecommunications Engineering
- LM-28 Electrical Engineering
- LM-29 Electronic Engineering
- LM-30 Energy and Nuclear Engineering
- LM-32 Computer Systems Engineering
- LM-33 Mechanical Engineering
- LM-40 Mathematics
- LM-44 Mathematical Modelling for Engineering
- LM-53 Materials Engineering
- LM-54 Chemistry
- LM-58 Universe Sciences
- LM-66 Computer Systems Safety
- LM-71 Industrial Chemistry
- LM-74 Geology
- LM-75 Environmental and Land Sciences
- LM-79 Geophysics
- LM-82 Statistics
- LM-91 Methods and techniques for the information society

**Reference letters**

The Faculty of Instructors requires that 2 reference letters, drawn up according to Form 2 attached hereto, be sent to the email address [phd@fisica.unimi.it](mailto:phd@fisica.unimi.it).

**Selection stages – Doctoral programme in Physics, Astrophysics and Applied Physics**

<i>Submission of applications</i>	By 2 pm on 27 June 2024
<i>Qualification assessment date</i>	The date and outcome of the qualification assessment will be posted on the <u>University website</u> , on the programme webpage, before the start date of the interviews.
<i>Interviews</i>	The interview schedule – specifying the place, date and



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time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the University website, on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview can be in Italian or English, at the applicant's choice. English proficiency will be assessed anyway.



## Doctoral programme in Computer Science

### Learning objectives

The doctoral programme in Computer Science aims to provide students with advanced scientific, methodological and technological knowledge in computer science and related sectors and their corresponding fields of application. This knowledge will prepare students and introduce them to theoretical and applied research, with particular attention to interdisciplinarity and internationalisation, developing research skills so that they are able to produce original independent research of interest to the international scientific community and businesses.

The doctoral programme aims to provide students with:

- solid wide-ranging knowledge on the basics of science and methodologies and technologies pertinent to IT and related fields,
- advanced and in-depth skills in specific areas,
- interdisciplinary skills necessary to promote cultural and methodological synergies,
- sound knowledge of research methodologies and of how to organise and manage research and disseminate results,
- opportunities to train internationally,
- better preparation and placement within academic research groups and companies.

The doctoral programme is entirely in English.

### Academic disciplines

01/B (Informatics)

09/H (Computer engineering)

### Research topics

Research topics are available on the [University website](#).

### Duration

3 years

### Starting date

1 October 2024

### Places available

9

### Scholarships

8 University of Milan



1 scholarship co-funded by Optit srl under Ministerial Decree 630/2024 for the research project: “Artificial Intelligence applications to Vehicle Routing Problems”. Lead instructor: Alberto Ceselli (CUP G43C24000840006)

**Doctoral programme coordinator**

Prof. Roberto Sassi, full professor in scientific-disciplinary sector INF/01

[roberto.sassi@unimi.it](mailto:roberto.sassi@unimi.it)

**Admission requirements**

Master’s degree of any class

**Reference letters**

The Faculty of Instructors requires that a minimum of 1 and up to 3 reference letters, drawn up according to [Form 2](#) attached hereto, be sent to the email address

[phdcomputerscience@di.unimi.it](mailto:phdcomputerscience@di.unimi.it).

**Selection stages – Doctoral programme in Computer Science**

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the [University website](#), on the programme webpage, before the start date of the interviews.

*Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the [University website](#), on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview will be in English.



## Doctoral programme in International and Public Law, Ethics and Economics for Sustainable Development (LEES)

### Learning objectives

Despite the urgency of the Sustainable Development Goals integrated into the UN 2030 Agenda, some of the most influential global actors continue to disclaim their responsibility to contribute to them. The magnitude of the problem justifies a multidisciplinary research programme on the institutions for sustainability, based on putting to work together law, ethics and economics - to which the LEES doctorate is dedicated. The legal system defines the rule of law limits to the political balance between fundamental rights and economic stability, and indicates the intolerability of phenomena of marginalization and inequality. However, new ideas of justice are needed: after redefining the concept of social well-being, these ideas need to reconceive distributive justice from both an inter-generational and intra-generational perspective. Comparative studies, as well as *de jure condendo* ones, will design multi-level institutions for sustainable development, finally questioning the fact that various private institutions can be sheltered from the claims of social justice, such as the access to innovation, the fair distribution of decision-making rights to stakeholders within enterprises, and the democratic self-government of common goods. Strategic litigation will be studied in order to promote institutional change and respect for human rights inside and outside the courts. An economic analysis will set the condition to verify when institutional change is supported by collective rational choice models and if it corresponds, thanks also to plasticity of preferences, to the emergence of game theoretical equilibria eliciting conformity (social norms).

The doctoral programme is entirely in English.

### Academic disciplines

12/C (Constitutional and ecclesiastical law)

12/D (Administrative and tax law)

12/E (International, European Union, comparative, economic, market and maritime law)

12/H (Roman law, history of medieval and modern law, and philosophy of law)

13/A (Economics)

13/B (Business administration and management)

### Research topics

Research topics are available on the [University website](#).

### Duration

3 years

### Starting date

1 November 2024



**Places available**

3

**Scholarships**

3 University of Milan

**Doctoral programme coordinator**

Prof. Lorenzo Sacconi, full professor in scientific-disciplinary sector SECS-P/02

[lorenzo.sacconi@unimi.it](mailto:lorenzo.sacconi@unimi.it)

**Curricula**

1. Sustainable Development
2. Human Rights And Strategic Litigation

**Admission requirements**

Degree obtained in one of the following classes under Ministerial Decree 270/2004, or in one of the corresponding classes under Ministerial Decree 509/99:

LM-1 Cultural Anthropology and Ethnology

LM-16 Finance

LM-35 Environmental Engineering

LM-48 Regional, Urban and Environmental Planning

LM-49 Tourism Development and Management

LM-50 Development and Management of Education Services

LM-51 Psychology

LM-52 International Relations

LM-55 Cognitive Sciences

LM-56 Economics

LM-59 Advertising and Communication for the Public and Private Sectors

LM-62 Political Science

LM-63 Public Administration

LM-64 Religion

LM-69 Agriculture

LM-70 Food Science

LM-73 Environmental and Forestry Sciences

LM-75 Environmental and Land Sciences

LM-76 Environmental and Cultural Economics

LM-77 Management

LM-78 Philosophy

LM-81 Development Cooperation



LM-84 History  
LM-87 Social Services and Policies  
LM-88 Sociology and Social Research  
LM-90 European Studies  
LM-92 Communication  
LM/SC-GIUR Law Science  
LMG/01 Law

**Reference letters**

The Faculty of Instructors requires that 2 reference letters, drawn up according to [Form 2](#) attached hereto, be sent to the email address [lees@unimi.it](mailto:lees@unimi.it).

**Selection stages – Doctoral programme in International and Public Law, Ethics and Economics for Sustainable Development (LEES)**

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the [University website](#), on the programme webpage, before the start date of the interviews.

*Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the [University website](#), on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview will be in English.



## Doctoral programme in Experimental Medicine

### Learning objectives

Experimental medicine develops and applies technology and biological models for studying pathogenic mechanisms in human disease. It involves various disciplines (biochemistry, biology, molecular biology, anatomy, physiology, pathology, immunology, genetics and microbiology/virology) that are providing a rapidly growing understanding of the mechanisms that enable the development of pathological processes. The programme aims to acquaint students with the technologies and research methodologies in the area of biomedicine and biotechnology based on in vitro and in vivo experimental models and '-omic' approaches, and on their application to the study of cellular and molecular mechanisms involved in the pathogenesis of human disease. The overall goal is to train high-level scientists that can combine an understanding of biological processes and pathogenic mechanisms with the ability to apply advanced experimental techniques. The specific objectives of the programme are:

1. to develop the ability to define problems and devise experiments to solve them in accordance with scientific standards;
2. to study biochemical, molecular and cellular mechanisms in physiopathology using advanced technologies;
3. to develop the ability to critically assess scientific literature;
4. to provide solid, up-to-date knowledge in the specific field;
5. to teach how to conduct independent research, and to inform on related ethical implications.

The doctoral programme is entirely in English.

### Academic disciplines

05/E (Experimental and clinical biochemistry and molecular biology)

05/F (Experimental biology)

05/G (Experimental and clinical pharmacology)

06/A (Pathology and laboratory medicine)

06/D (Specialised clinical medicine)

06/N (Healthcare, applied medical technologies, physical exercise and sports science professions)

### Research topics

Research topics are available on the [University website](#).

### Duration

3 years

### Starting date

1 October 2024



**Places available**

11

**Scholarships**

9 University of Milan

1 scholarship for implementation of the project of the Department of Medical Biotechnology and Translational Medicine funded by the Ministry of University and Research (MUR) in the framework of the Departments of Excellence 2023-2027 call under Law no. 232 of 11 December 2016

1 scholarship funded by the Department of Medical Biotechnology and Translational Medicine for the programme: “From health data sharing to predictive modeling of individual vulnerabilities: charting ethical, legal and social aspects of NeuroCovid research”.

**Doctoral programme coordinator**

Prof. Nicoletta Landsberger, full professor in scientific-disciplinary sector BIO/11

[nicoletta.landsberger@unimi.it](mailto:nicoletta.landsberger@unimi.it)

**Admission requirements**

Master’s degree of any class

**Reference letters**

The Faculty of Instructors requires that 2 reference letters, drawn up according to [Form 2](#) attached hereto, be sent to the email address [phd.experimental-medicine@unimi.it](mailto:phd.experimental-medicine@unimi.it).

**Selection stages – Doctoral programme in Experimental Medicine**

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the [University website](#), on the programme webpage, before the start date of the interviews.

*Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the [University website](#), on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview will be in English.



## Doctoral programme in Translational Medicine

### Learning objectives

The doctoral programme aims to train researchers who are able to develop research projects that bridge the gap between laboratory activity and clinical sciences, facilitating the translational process in both directions.

Aims:

1. understand and study biological structures in the different levels of organisation, their physiological and pathological modifications in the framework of interactions between people and the environment, exploring diagnostic and therapeutic interventions and facilitating their application in clinical practice;
2. learn a scientific translational research approach which can favour points of contact between biological and clinical-behavioural discoveries and preventive, therapeutic and rehabilitation practices in order to improve health and lifestyles, also considering the global increase in life expectancy;
3. develop a solid base in the methodological disciplines required to properly formulate experimental hypotheses, define experimental designs and critically interpret results;
4. promote communication between biological and clinical-behavioural research, particularly in relation to processes underlying movement and physical activity, in the areas of prevention, mental and physical wellbeing, sport and professional performance, in conditions of health, illness and disability, in a unified perspective;
5. understand the ethical implications of biological and clinical research.

The doctoral programme is entirely in English.

### Academic disciplines

02/D (Applied physics, physics teaching and history of physics)

05/D (Physiology)

05/E (Experimental and clinical biochemistry and molecular biology)

05/F (Experimental biology)

05/H (Human anatomy and histology)

06/A (Pathology and laboratory medicine)

06/B (General clinical medicine)

06/C (General clinical surgery)

06/D (Specialised clinical medicine)

06/E (Specialised clinical surgery)

06/F (Integrated clinical surgery)



06/G (Paediatrics)

06/I (Radiology)

06/L (Anaesthesiology)

06/N (Healthcare, applied medical technologies, physical exercise and sports science professions)

09/G (Systems engineering and bioengineering)

**Research topics**

Research topics are available on the [University website](#).

**Duration**

3 years

**Starting date**

1 October 2024

**Places available**

17

**Scholarships**

15 University of Milan

1 scholarship funded by the Department of Pathophysiology and Transplantation for the research project: “Evaluation of inherited genetic factors involved in the predisposition to develop hepatocellular carcinoma for the development of a precision medicine approach in people with metabolic dysfunction and alcohol related steatotic liver disease, through the genomic characterisation of large patients cohorts and human tissue and bioinformatic analysis”

1 scholarship funded by Fondazione IRCCS Istituto Neurologico Carlo Besta for the research project: “Neurometabolic diseases in pediatric age: from clinical and genetic characterization to innovative gene-specific therapeutic approaches”

**Doctoral programme coordinator**

Prof. Chiarella Sforza, full professor in scientific-disciplinary sector BIO/16

[chiarella.sforza@unimi.it](mailto:chiarella.sforza@unimi.it)

**Admission requirements**

Master’s degree of any class

**Selection stages – Doctoral programme in Translational Medicine**

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will



be posted on the University website, on the programme webpage, before the start date of the interviews.

## *Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the University website, on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview will be in English.



## Doctoral programme in Clinical Research

### Learning objectives

Students will learn a correct research approach for studying the causes and the clinical-therapeutic management of diseases.

Specific objectives:

- identify clinical issues and uncertainties in pathogenesis, diagnosis, prognosis and in therapeutic approaches in various diseases;
- correctly apply different research methodologies (randomized trials, longitudinal, cross-sectional or transversal studies and case control studies);
- identify and use biological and genetic markers for studying clinical syndromes, guiding diagnosis and assessing the clinical outcome of different pathologies;
- develop critical skills to analyse and comment clinical research results published or presented at national and international conferences;
- introduce students to independent clinical research methods and to the issues and critical points relating to ethics in clinical research.

The doctoral programme is entirely in English.

### Academic disciplines

02/D (Applied physics, physics teaching and history of physics)

05/E (Experimental and clinical biochemistry and molecular biology)

05/H (Human anatomy and histology)

06/A (Pathology and laboratory medicine)

06/B (General clinical medicine)

06/D (Specialised clinical medicine)

06/E (Specialised clinical surgery)

06/F (Integrated clinical surgery)

06/G (Paediatrics)

06/I (Radiology)

06/M (Public health)

06/N (Healthcare, applied medical technologies, physical exercise and sports science professions)

### Research topics

Research topics are available on the [University website](#).

### Duration



3 years

**Starting date**

1 October 2024

**Places available**

9

**Scholarships**

8 University of Milan

1 scholarship co-funded by IRCCS MultiMedica - MultiMedica Spa under Ministerial Decree 630/2024 for the research project: “Translational Research Project in Immuno-Oncology: identification of predictive/prognostic response and toxicity markers with special focus on Cardio-Oncology”. Lead instructor: Prof. Paola Muti (CUP G43C24000870006)

**Doctoral programme coordinator**

Prof. Massimo Del Fabbro, full professor in scientific-disciplinary sector MED/50  
[massimo.delfabbro@unimi.it](mailto:massimo.delfabbro@unimi.it)

**Curricula**

1. Oral sciences
2. Specialized medical sciences

**Admission requirements**

LM-41 Medicine

LM-46 Dentistry and Orthodontics

LM/SNT1 Nursing and Midwifery

LM/SNT2 Health Professions for Rehabilitation

LM/SNT3 Health Professions for Technical Assistance

LM/SNT4 Health Professions for Preventive Care

**Reference letters**

The Faculty of Instructors requires that 1 reference letter, drawn up according to [Form 2](#) attached hereto, be sent by email to the doctoral programme coordinator.

**Selection stages – Doctoral programme in Clinical Research**

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the [University website](#), on the programme webpage, before the start date of the interviews.



*Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the University website, on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview will be in English.



## Doctoral programme in Environmental Sciences

### Learning objectives

The doctoral programme provides solid grounding and research training in the field of Environmental Sciences, promoting interaction with Italian and foreign research groups as well as with institutions that study and manage the environment and health, and facilitating the internationalisation process.

As a highly interdisciplinary programme, it aims to provide students with:

- an understanding of the methodological, instrumental, analytical, and statistical approaches to study the environment;
- the ability to draw together interdisciplinary knowledge concerning the various components of environmental systems.

The programme ensures high standards of learning in the integrated study of complex environmental systems regarding:

- current and past biological and non-biological components;
- functional relations between the biotic and abiotic components and their mediating mechanisms;
- changes in the times of ecological, evolutionary and geomorphological processes.

The programme focuses on the following aspects:

- biodiversity, at all levels of organisation of living organisms;
- relations between biotic components, and between them and the abiotic environment, including in anthropogenic components;
- human-environment interactions, also in a diachronic perspective, both in terms of the impact of anthropic activities on environmental systems, and of the impact of the environment on risks for humans and human activities.

Another objective is to develop innovative methods for teaching environmental sciences.

The doctoral programme is entirely in English.

### Academic disciplines

01/A (Mathematics)

02/C (Astronomy, astrophysics, Earth and planetary physics)

04/A (Earth sciences)

05/A (Plant biology)

05/B (Animal biology and anthropology)

05/C (Ecology)

05/G (Experimental and clinical pharmacology)

05/I (Genetics and microbiology)



06/A (Pathology and laboratory medicine)

06/M (Public health)

07/C (Agricultural, forest and biosystems engineering)

07/E (Agricultural chemistry, agricultural genetics and pedology)

07/G (Animal science and technology)

07/H (Veterinary medicine)

### Research topics

Research topics are available on the [University website](#).

### Duration

3 years

### Starting date

1 October 2024

### Places available

14

### Scholarships

7 University of Milan

1 scholarship funded by the Department of Agricultural and Environmental Sciences – Production, Landscape, Agroenergy, for the programme: “Study and analysis of innovative strategies and solutions (Nature Based Solutions) for adaptation to climate change in European mountain regions”

2 scholarships funded by the Department of Clinical Sciences and Community Health using ERC funds, for the programme: “Characterization of the human exposome in urban settings and development of innovative biomarkers to evaluate their impact on health”. Project: “MAMELI - MAPPING the Methylation of repetitive elements to track the Exposome effects on health: the city of Legnano as a Living lab”.

1 scholarship for implementation of the project of the Department of Environmental Science and Policy funded by the Ministry of University and Research (MUR) in the framework of the Departments of Excellence 2023-2027 call under Law no. 232 of 11 December 2016, for the programme “Adaptation strategies to climate change based on the genetic improvement of cultivated species”

2 scholarships funded by the Department of Environmental Science and Policy for the research projects:

- “Occurrence and fate of contaminants of emerging concern (CECs) in different ecosystems of Mediterranean Sea”



- “Biomonitoring of contaminants of emerging concern (CECs) across the Mediterranean marine food web”

1 scholarship funded by LIPU (Italian League for Bird Protection) for the research project: “Developing a climate-proof ecological network for high-elevation habitats”

**Doctoral programme coordinator**

Prof. Marcella Guarino, full professor in scientific-disciplinary sector AGR/10

[marcella.guarino@unimi.it](mailto:marcella.guarino@unimi.it)

**Admission requirements**

Master’s degree of any class

**Selection stages – Doctoral programme in Environmental Sciences**

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the University website, on the programme webpage, before the start date of the interviews.

*Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the University website, on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview can be in Italian or English, at the applicant’s choice. English proficiency will be assessed anyway.



## Doctoral programme in Literature, Arts and Environmental Heritage

### Learning objectives

The doctoral programme in Literature, arts and environmental heritage is structured around two central ideas: the "text" (broadly considered as the product of an intentional creative action in the literary, artistic and environmental domains), its history and success, the forms of its production and reception; the "context", meaning all the historical and environmental circumstances in which such creative activity has developed. This programme draws from the rich experience of the previous doctoral programmes in Classical Antiquity, History of Italian language and Literature, Cultural and Environmental Heritage Sciences, delving into the cultural contents of its various disciplines (classical and modern philology and literature, linguistics, history and classical antiquity, archaeology, history of art, music and of performing arts, environmental humanities), and reorganising them in a broad and organic multidisciplinary perspective.

### Academic disciplines

10/A (Archaeological sciences)

10/B (Art history)

10/C (Cinema, music, performing arts, television and media studies)

10/D (Sciences of antiquity)

10/E (Medieval Latin and romance philologies and literatures)

10/F (Italian studies and comparative literatures)

10/G (Glottology and linguistics)

10/N (Eastern and African cultures)

11/A (History)

11/B (Geography)

11/C (Philosophy)

11/E (Psychology)

### Research topics

Research topics are available on the [University website](#).

### Duration

3 years

### Starting date

1 November 2024



**Places available**

7

**Scholarships**

7 University of Milan

**Doctoral programme coordinator**

Prof. Fabrizio Slavazzi, full professor in scientific-disciplinary sector L-ANT/07

[fabrizio.slavazzi@unimi.it](mailto:fabrizio.slavazzi@unimi.it)

**Admission requirements**

Degree obtained in one of the following classes under Ministerial Decree 270/2004, or in one of the corresponding classes under Ministerial Decree 509/99:

LM-2 Archaeology

LM-3 Landscape Architecture

LM-5 Library Studies

LM-10 Conservation of Architectural and Environmental Heritage

LM-11 Science for Conservation of Cultural Heritage

LM-12 Design

LM-14 Modern Philology

LM-15 Ancient Philology, Literature and History

LM-19 Information and Publishing Systems

LM-36 Asian and African Languages and Literatures

LM-37 Modern American and European Languages and Literatures

LM-38 Modern Languages for Communication and International Cooperation

LM-39 Linguistics

LM-45 Musicology and Musical Heritage

LM-48 Regional, Urban and Environmental Planning

LM-49 Tourism Development and Management

LM-50 Development and Management of Education Services

LM-51 Psychology

LM-65 Performing Arts and Multimedia Production

LM-75 Environmental and Land Sciences

LM-78 Philosophy



LM-80 Geography

LM-84 History

LM-89 Art History

LM-92 Communication

LM-94 Interpreting and Specialised Translating

LMR/02 Conservation and Restoration of Cultural Heritage.

**Selection stages – Doctoral programme in Literature, Arts and Environmental Heritage**

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the [University website](#), on the programme webpage, before the start date of the interviews.

*Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the [University website](#), on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview can be in Italian or English, at the applicant's choice. English proficiency will be assessed anyway.



## Doctoral programme in Nutritional Sciences

### Learning objectives

The doctoral programme in Nutritional Sciences offers integrated multidisciplinary and translational training in Nutrition research. The programme intends to train students in research in multiple fields, including nutrition, medicine, food chemistry, biology and veterinary medicine. Specialty areas include human nutrition, diet therapy, nutraceuticals (including animal), foods and food production, well-being, community nutrition and food education, as well as animal nutrition (also as a model) and food safety. Nutritional knowledge and skills are integrated synergistically, as part of an innovative and attractive training path.

### Academic disciplines

03/D (Medicinal and food chemistry and applied technologies)

05/D (Physiology)

05/E (Experimental and clinical biochemistry and molecular biology)

05/G (Experimental and clinical pharmacology)

06/A (Pathology and laboratory medicine)

06/B (General clinical medicine)

06/D (Specialised clinical medicine)

06/F (Integrated clinical surgery)

06/G (Paediatrics)

06/H (Gynaecology)

07/G (Animal science and technology)

07/H (Veterinary medicine)

11/E (Psychology)

### Research topics

Research topics are available on the [University website](#).

### Duration

3 years

### Starting date

1 October 2024

### Places available

7

### Scholarships

6 University of Milan



1 scholarship co-funded by Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico under Ministerial Decree 630/2024 for the research project: "Microbiome alteration and MDRO characterization in ICU patients and role of enteral nutrition". Lead instructor: Prof. Claudia Alteri (CUP G43C24000850006)

**Doctoral programme coordinator**

Prof. Federica Cheli, full professor in scientific-disciplinary sector AGR/18

[federica.cheli@unimi.it](mailto:federica.cheli@unimi.it)

**Admission requirements**

Master's degree of any class

**Reference letters**

The Faculty of Instructors requires that 2 reference letters, drawn up according to [Form 2](#) attached hereto, be sent to the email address [phdsn@unimi.it](mailto:phdsn@unimi.it).

**Selection stages – Doctoral programme in Nutritional Sciences**

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the [University website](#), on the programme webpage, before the start date of the interviews.

*Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the [University website](#), on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview can be in Italian or English, at the applicant's choice. English proficiency will be assessed anyway.



## Doctoral programme in Earth Sciences

### Learning objectives

The doctoral programme in Earth Sciences aims to train young researchers so that they are able to autonomously investigate a broad range of geoscience topics. The mission is to train high profile geologists with scientific-technical-experimental training in the study, modelling and management of georesources, who are able to solve problems effectively. Based on past experience, the programme will focus on immediately marketable hard & soft skills and meet the need for post-graduate education with up-to-date, innovative know-how. In particular, it will provide advanced specialist training:

1. in basic, applied and theoretical research on problems relating to the structure, composition, evolution and dynamics of the Earth;
2. in the characterisation and modelling of the Earth System;
3. in basic and applied research on land use, natural hazards, energy and water resources, geomaterials, mineral prospecting and enhancement of cultural heritage.

The geological perspective of the overall functioning of the Earth System includes research centred on the processes at work on the surface and inside the Earth, on their impact on ecosystems and human activities and, conversely, the short and long-term consequences of human activity on the environment. The complex interactions between geosphere, biosphere, atmosphere and hydrosphere are stored in the geological record, which can be decoded to:

- reconstruct the development and evolution of our planet, combining experimental observations and models;
- define natural resources (oil, gas, mineral raw materials, water), their use and sustainable exploitation;
- evaluate geological hazards (e.g., earthquakes, volcanic eruptions, floods, landslides);
- devise works of geological engineering and infrastructures;
- implement environmental reclamation technologies;
- develop exploitation of raw materials for industrial applications;
- preserve and make the most of our cultural geo-paleontological heritage;
- evaluate forensic applications.

The EARTH SYSTEM: PROCESSES AND MODELLING curriculum aims to develop scientific-technical skills for understanding, quantifying and modelling the current Earth system and the geological record, characterised by complex interactions between geosphere, biosphere, atmosphere and hydrosphere.

The GEORESOURCES curriculum aims to develop innovative skills to address the global challenges deriving from the growing need for georesources. Research activities will focus on a wide spectrum of geological skills regarding the identification and exploitation of energy, mineral and water resources while preserving the landscape. The aim is to train high-profile geologists with scientific-



technical-experimental training for research, modelling and management of georesources and for studying and enhancing the landscape and cultural heritage.

The programme is organised to meet teaching and research requirements related to the broad spectrum of geosciences. The lines of research developed during the doctoral programme in Earth Sciences are highly topical with extensive international significance, as witnessed by close cooperation with leading international research institutions. Special attention is dedicated to training researchers to tackle complex research topics in an independent and innovative manner. Training of doctoral students includes short courses and workshops, work experience in Italian and international institutions/laboratories, collaboration with industry, participation in Italian and international conferences and workshops, and other activities focused on overall training.

The doctoral programme is entirely in English.

## **Academic disciplines**

04/A (Earth sciences)

## **Research topics**

Research topics are available on the [University website](#).

## **Duration**

3 years

## **Starting date**

1 November 2024

## **Places available**

7

## **Scholarships**

5 University of Milan

2 for implementation of the project of the Department of Earth Sciences “Ardito Desio” funded by the Ministry of University and Research (MUR) in the framework of the Departments of Excellence 2023-2027 call under Law no. 232 of 11 December 2016

## **Doctoral programme coordinator**

Prof. Maria Iole Spalla, full professor in scientific-disciplinary sector GEO/03

[iole.spalla@unimi.it](mailto:iole.spalla@unimi.it)

## **Curricula**

1. Earth system: processes and modelling
2. Georesources

## **Admission requirements**



Degree obtained in one of the following classes under Ministerial Decree 270/2004, or in one of the corresponding classes under Ministerial Decree 509/99:

LM-11 Science for Conservation of Cultural Heritage

LM-17 Physics

LM-18 Computer Science

LM-22 Chemical Engineering

LM-23 Civil Engineering

LM-27 Telecommunications Engineering

LM-29 Electronic Engineering

LM-30 Energy and Nuclear Engineering

LM-32 Computer Systems Engineering

LM-34 Naval Engineering

LM-35 Environmental Engineering

LM-40 Mathematics

LM-48 Regional, Urban and Environmental Planning

LM-53 Materials Engineering

LM-54 Chemistry

LM-58 Universe sciences

LM-60 Natural Sciences

LM-69 Agriculture

LM-71 Industrial Chemistry

LM-72 Navigation

LM-73 Environmental and Forestry Sciences

LM-74 Geology

LM-75 Environmental and Land Sciences

LM-79 Geophysics

LM-82 Statistics



### Reference letters

The Faculty of Instructors requires that 1 reference letter, drawn up according to [Form 2](#) attached hereto, be sent to the email address [phd.earth.sciences@unimi.it](mailto:phd.earth.sciences@unimi.it)

### Selection stages – Doctoral programme in Earth Sciences

#### *Submission of applications*

By 2 pm on 27 June 2024

#### *Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the [University website](#), on the programme webpage, before the start date of the interviews.

#### *Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the [University website](#), on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview will be in English.



## Doctoral programme in Pharmaceutical Sciences

### Learning objectives

The doctoral programme is designed to train highly skilled doctors to work successfully in the industrial and academic fields, and in the sector of medicines and healthcare products. The training, which aims at providing advanced methodological knowledge and scientific content in the pharmaceutical sector, includes theory and research, both centred on the design, synthesis, development and control of new biologically active compounds, new pharmaceutical forms, special foods, cosmetics, biocides and medical devices, typical of the fields covered in the doctoral programme:

- Design and synthesis of biologically active compounds
- Pharmaceutical, biopharmaceutical and toxicological analysis
- Drug metabolism and pharmacokinetics
- Pharmaceutical technology and legislation
- Chemistry of foods and dietary products
- Fermentation chemistry and biotechnology
- Advanced synthetic methodologies
- Physico-chemical characterization of biologically active compounds
- Herbal drugs, botanicals and active ingredients of plant origin
- Statistical methods for experimental data processing in the chemical analysis laboratory.

The doctoral programme is entirely in English.

### Academic disciplines

03/A (Analytical and physical chemistry)

03/B (Inorganic chemistry and applied technologies)

03/C (Organic, industrial and applied chemistry)

03/D (Medicinal and food chemistry and applied technologies)

05/A (Plant biology)

### Research topics

Research topics are available on the [University website](#).

### Duration

3 years

### Starting date

1 November 2024



**Places available**

6

**Scholarships**

6 University of Milan

**Doctoral programme coordinator**

Prof. Giulio Vistoli, full professor in scientific-disciplinary sector CHIM/08

[giulio.vistoli@unimi.it](mailto:giulio.vistoli@unimi.it)

**Admission requirements**

Degree obtained in one of the following classes under Ministerial Decree 270/2004, or in one of the corresponding classes under Ministerial Decree 509/99:

LM-6 Biology

LM-8 Industrial Biotechnologies

LM-9 Pharmaceutical, Veterinary and Medical Biotechnologies

LM-13 Pharmacy and Industrial Pharmacy

LM-21 Biomedical Engineering

LM-22 Chemical Engineering

LM-26 Safety Engineering

LM-53 Materials Engineering

LM-54 Chemistry

LM-61 Nutrition

LM-69 Agriculture

LM-70 Food Science

LM-71 Industrial Chemistry

**Reference letters**

The Faculty of Instructors requires that 1 reference letter, drawn up according to [Form 2](#) attached hereto, be sent to the email address [dottorato.scifarm@unimi.it](mailto:dottorato.scifarm@unimi.it), and in cc to the doctoral programme coordinator at his email address.

**Selection stages – Doctoral programme in Pharmaceutical Sciences**

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will



be posted on the University website, on the programme webpage, before the start date of the interviews.

## *Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the University website, on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview can be in Italian or English, at the applicant's choice. English proficiency will be assessed anyway.



## Doctoral programme in Pharmacological Biomolecular Sciences, Experimental and Clinical

### Learning objectives

The doctoral programme, positioned as the third level of University education, makes the most of the multidisciplinary knowledge of the teaching staff to train biomedical experts in the most modern aspects of pharmacological research. In particular, the areas of interest are:

- Basic research: the study of key mechanisms and molecules in physiopathological processes to identify new pharmacological targets and/or new markers predictive of disease and therapeutic effectiveness. Research involves: 1) the analysis of molecular and cellular aspects of complex physiological processes, 2) the study of pathogenic mechanisms in diseases, 3) the study of biological markers that can be of use in the translation of preclinical research to humans.
- Research applied to the pharmacological-toxicological study of active ingredients: 1) analysis of the activity of active principles, including biological drugs under development or in clinical use, 2) analysis of foods, food supplements and therapeutic plant derivatives, 3) analysis of xenobiotic activity.
- Research applied to the creation of innovative systems for studying pathologies and developing drugs and evaluation of their effects on the population. Research is based on: 1) the development of cellular and animal models also through genetic engineering methodologies, 2) optimising preclinical protocols for simple and complex diseases, including co-morbidities, 3) in silico approaches to the study of new drug-toxicology targets, 4) the use of databases and population studies also to assess drug use and outcomes in terms of clinical events.
- Technical-scientific collaboration with other clinical centres, for revising documentation on active compounds and plant protection products, as well as for pharmacovigilance.

In conclusion, students will develop competencies applicable to various areas of academic and industrial research, allowing effective bench-to-bedside translation and a multidisciplinary approach essential for public health, with a significant socio-economic impact on health.

The doctoral programme is entirely in English.

### Academic disciplines

05/D (Physiology)

05/E (Experimental and clinical biochemistry and molecular biology)

05/F (Experimental biology)

05/G (Experimental and clinical pharmacology)

05/H (Human anatomy and histology)

05/I (Genetics and microbiology)

06/A (Pathology and laboratory medicine)

06/D (Specialised clinical medicine)



**Research topics**

Research topics are available on the [University website](#).

**Duration**

3 years

**Starting date**

1 November 2024

**Places available**

8

**Scholarships**

8 University of Milan

**Doctoral programme coordinator**

Prof. Giuseppe Danilo Norata, full professor in scientific disciplinary sector BIO/14

[danilo.norata@unimi.it](mailto:danilo.norata@unimi.it)

**Admission requirements**

Degree obtained in one of the following classes under Ministerial Decree 270/2004, or in one of the corresponding classes under Ministerial Decree 509/99:

LM-6 Biology

LM-7 Agrarian Biotechnologies

LM-8 Industrial Biotechnologies

LM-9 Pharmaceutical, Veterinary and Medical Biotechnologies

LM-13 Pharmacy and Industrial Pharmacy

LM-17 Physics

LM-18 Computer Science

LM-21 Biomedical Engineering

LM-41 Medicine

LM-42 Veterinary Medicine

LM-54 Chemistry

LM-55 Cognitive Sciences

LM-60 Natural Sciences

LM-61 Nutrition

LM-69 Agriculture

LM-70 Food Science

LM-75 Environmental and Land Sciences



LM-82 Statistics

LM/SNT1 Nursing and Midwifery

LM/SNT2 Health Professions for Rehabilitation

LM/SNT3 Health Professions for Technical Assistance

LM/SNT4 Health Professions for Preventive Care

### Reference letters

The Faculty of Instructors requires that 2 reference letters, drawn up according to [Form 2](#) attached hereto, be sent to the email address [dottorato.sfsc@unimi.it](mailto:dottorato.sfsc@unimi.it).

### Selection stages – Doctoral programme in Pharmacological Biomolecular Sciences, Experimental and Clinical

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the [University website](#), on the programme webpage, before the start date of the interviews.

*Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the [University website](#), on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview will be in English.



## **Doctoral programme in Legal Studies “Cesare Beccaria”**

### **Learning objectives**

The programme provides high-level interdisciplinary training during which the doctoral student is offered the possibility of further study of law, with special reference to criminal law and procedure, Roman law, history, philosophy and sociology of law, and ecclesiastical and canon law.

The programme includes lessons and active participation at seminars, during which the PhD candidate will be encouraged to research different topics in detail. He/she will also be involved in research projects promoted by the Faculty of Instructors and will be urged to write and publish contributions in the framework of these projects.

During the three-year period, the student will write an extensive and original scientific paper under the supervision of one or more tutors. The paper may be interdisciplinary.

Part of the programme may also be conducted at a foreign university or research institute.

### **Academic disciplines**

12/C (Constitutional and ecclesiastical law)

12/G (Criminal law and criminal procedure)

12/H (Roman law, history of medieval and modern law, and philosophy of law)

### **Research topics**

Research topics are available on the [University website](#).

### **Duration**

3 years

### **Starting date**

1 October 2024

### **Places available**

8

### **Scholarships**

6 University of Milan

2 for implementation of the project of the Department of Law “Cesare Beccaria” funded by the Ministry of University and Research (MUR) in the framework of the Departments of Excellence 2023-2027 call under Law no. 232 of 11 December 2016

### **Doctoral programme coordinator**

Prof. Francesca Poggi, full professor in scientific-disciplinary sector IUS/20

[francesca.poggi@unimi.it](mailto:francesca.poggi@unimi.it)



## Curricula

1. Criminal law and criminal procedure
2. Roman law and legal history
3. Legal philosophy, sociology of law, ecclesiastical and canon law

## Admission requirements

Degree obtained in one of the following classes under Ministerial Decree 270/2004, or in one of the corresponding classes under Ministerial Decree 509/99:

LM-18 Computer Science

LM-32 Computer Systems Engineering

LM-52 International Relations

LM-56 Economics

LM-62 Political Science

LM-63 Public Administration

LM-66 Computer Systems Safety

LM-78 Philosophy

LM-81 Development Cooperation

LM-84 History

LM-88 Sociology and Social Research

LMG/01 Law

## Selection stages – Doctoral programme in Legal Studies “Cesare Beccaria”

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the [University website](#), on the programme webpage, before the start date of the interviews.

*Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the [University website](#), on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview can be in Italian or English, at the applicant’s choice. English proficiency will be assessed anyway.



## Doctoral programme in Mathematical Sciences

### Learning objectives

The main purpose of the PhD programme is to introduce PhD students to research in mathematics, an activity that finds its main purpose in advancing knowledge in the various fields of mathematics. To this end, the programme aims to technically train PhD students by providing them with the specialist mathematical tools that are essential to work in mathematics. In addition to the purely technical aspects, one of the objectives is to teach PhD students to navigate bibliographic research in order to identify relevant contributions. Another aspect is to teach PhD students how to interact with their colleagues on campus and elsewhere in order to facilitate progress in their research. A further aspect consists in training PhD students to disseminate and publicize their research, usually by presenting their work at seminars and conferences and by visiting other research institutes where they can present their findings, e.g. in scientific discussions.

The doctoral programme is entirely in English.

### Academic disciplines

01/A (Mathematics)

13/D (Statistics and mathematical methods for decisions)

### Research topics

Research topics are available on the [University website](#).

### Duration

3 years

### Starting date

1 October 2024

### Places available

9

### Scholarships

7 University of Milan

2 for implementation of the project of the Department of Mathematics “Federigo Enriques” funded by the Ministry of University and Research (MUR) in the framework of the Departments of Excellence 2023-2027 call under Law no. 232 of 11 December 2016

### Doctoral programme coordinator

Prof. Dario Paolo Bambusi, full professor in scientific-disciplinary sector MAT/07  
[dario.bambusi@unimi.it](mailto:dario.bambusi@unimi.it)

### Admission requirements

Master's degree of any class



### Reference letters

The Faculty of Instructors requires that 1 reference letter, drawn up according to [Form 2](#) attached hereto, be sent to the email address [segrdott.mat@unimi.it](mailto:segrdott.mat@unimi.it)

### Selection stages – Doctoral programme in Mathematical Sciences

#### *Submission of applications*

By 2 pm on 27 June 2024

#### *Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the [University website](#), on the programme webpage, before the start date of the interviews.

#### *Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the [University website](#), on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview will be in English.



## Doctoral programme in Food Systems

### Learning objectives

The aim of this doctoral programme is to prepare researchers and scholars specialised in nutrition with international standard methodological know-how, autonomy and specific skills in scientific research on food systems. With these learning objectives, the doctoral programme in Food Systems envisages many cross-sector research topics:

- food technologies, process control and innovation;
- microbiology of foods and bioprocesses;
- food chemistry and biochemistry;
- human nutrition;
- ecology of agri-food and agri-environmental systems.

The doctoral programme is entirely in English.

### Academic disciplines

03/A (Analytical and physical chemistry)

03/D (Medicinal and food chemistry and applied technologies)

05/D (Physiology)

05/E (Experimental and clinical biochemistry and molecular biology)

06/D (Specialised clinical medicine)

07/A (Agricultural economics and appraisal)

07/C (Agricultural, forest and biosystems engineering)

07/D (Plant pathology and entomology)

07/E (Agricultural chemistry, agricultural genetics and pedology)

07/F (Food science and technology)

07/I (Agricultural microbiology)

### Research topics

Research topics are available on the [University website](#).

### Duration

3 years

### Starting date

1 November 2024



**Places available**

6

**Scholarships**

5 University of Milan

1 scholarship co-funded by Indena Spa under Ministerial Decree 630/2024 for the research project: “Sustainable bioprocesses for plant secondary metabolite biotransformation”. Lead instructor: prof. Francesco Molinari (CUP G43C24000810006)

**Doctoral programme coordinator**

Prof. Diego Mora, full professor in scientific-disciplinary sector AGR/16

[diego.mora@unimi.it](mailto:diego.mora@unimi.it); [food-systems@unimi.it](mailto:food-systems@unimi.it)

**Curricula**

1. Chemistry and biochemistry
2. Agri-environment
3. Food science and nutrition

**Admission requirements**

Master’s degree of any class

**Selection stages – Doctoral programme in Food Systems**

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the University website, on the programme webpage, before the start date of the interviews.

*Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the University website, on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview will be in English.



## Doctoral programme in Public Health Sciences

### Learning objectives

The doctoral programme in Public Health Sciences aims to train researchers who can design, undertake and critically interpret research and advanced training projects, and are ultimately able to: assess the health status and prevent the spread of transmittable and chronic-degenerative diseases within the population; promote health in individuals and communities; disseminate scientific culture and applicable research methodologies.

In line with the internationalisation process, students and professors have access to exchange programmes with other doctorates, research centres and institutions abroad, and some courses are held by foreign experts.

The specific objectives of the doctoral programme include the development of research methodologies in the area of healthcare, from the laboratory to clinical medicine; in the area of prevention policies focusing on the public and on particular groups at risk; in the context of services for protecting and promoting the health of individuals and the population; in a cross-cutting and trans-disciplinary context that considers the health of a population as closely linked to that of animals and the environment (one health approach), as well as the acquisition of a solid methodological grounding in the quantitative disciplines required to correctly apply and develop methods for the critical interpretation of basic, clinical, medical and epidemiological research findings.

### Academic disciplines

06/E (Specialised clinical surgery)

06/G (Paediatrics)

06/H (Gynaecology)

06/M (Public health)

07/H (Veterinary medicine)

13/B (Business administration and management)

13/D (Statistics and mathematical methods for decisions)

### Research topics

Research topics are available on the [University website](#).

### Duration

3 years

### Starting date

1 October 2024



**Places available**

6

**Scholarships**

4 University of Milan

2 for implementation of the project of the Department of Clinical Sciences and Community Health funded by the Ministry of University and Research (MUR) in the framework of the Departments of Excellence 2023-2027 call under Law no. 232 of 11 December 2016, for the programme “Effects of the exposome on human health”

**Doctoral programme coordinator**

Prof. Carlo La Vecchia, full professor in scientific-disciplinary sector MED/01

[carlo.lavecchia@unimi.it](mailto:carlo.lavecchia@unimi.it)

**Admission requirements**

Master’s degree of any class

**Selection stages – Doctoral programme in Public Health Sciences**

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the University website, on the programme webpage, before the start date of the interviews.

*Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the University website, on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview can be in Italian or English, at the applicant’s choice. English proficiency will be assessed anyway.



## Doctoral programme in Veterinary and Animal Science

### Learning objectives

The PhD programme in Veterinary and Animal Science contributes to develop highly qualified professionals capable of conducting research projects in the fields of veterinary science and zootechnics, and in the related areas of biotechnology, providing students with innovative technological and scientific knowledge and skills.

PhD students have to carry out an individual research project under the supervision of a tutor. For their project, they must choose one of the research topics proposed in the framework of the programme. In line with the University's strategic objectives, for each research project the programme provides PhD students with the opportunity to train for at least three months within an international research group.

The PhD in Veterinary and Animal Science aims to provide students with the following:

- A baseline knowledge of the methodologies needed to design and carry out interdisciplinary research projects
- A theoretical and practical foundation for the organisation, management and dissemination of research findings
- Opportunities to train and work in an international setting
- A qualification enabling them to join research groups within academia and beyond, including in the CNR (Italian National Research Council), in scientific institutes for research, as well as in zooprophyllactic, industrial, and professional institutes.

The doctoral programme is entirely in English.

### Academic disciplines

- 05/E (Experimental and clinical biochemistry and molecular biology)
- 07/A (Agricultural economics and appraisal)
- 07/C (Agricultural, forest and biosystems engineering)
- 07/G (Animal science and technology)
- 07/H (Veterinary medicine)

### Research topics

Research topics are available on the [University website](#).

### Duration

3 years

### Starting date

1 October 2024



**Places available**

13

**Scholarships**

12 University of Milan

1 scholarship co-funded by Zoogamma Spa under Ministerial Decree 630/2024 for the research project: “A decision algorithm for reducing morbidity, mortality, and antimicrobial use in veal calves”. Lead instructor: Prof. Davide Pravettoni (CUP G43C24000860006).

**Doctoral programme coordinator**

Prof. Fabrizio Ceciliani, full professor in scientific-disciplinary sector VET/03

[fabrizio.ceciliani@unimi.it](mailto:fabrizio.ceciliani@unimi.it)

**Admission requirements**

Master’s degree of any class

**Selection stages – Doctoral programme in Veterinary and Animal Science**

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the [University website](#), on the programme webpage, before the start date of the interviews.

*Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the [University website](#), on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview will be in English.



## Doctoral programme in Linguistic, Literary and Intercultural Studies in European and Extra-European Perspectives

### Learning objectives

The doctoral programme, which is a third cycle programme, promotes advanced training for research on a broad spectrum of languages, literature and cultures of different geographical areas (Europe, Africa, the Americas, Asia), and on related interlinguistic and intercultural phenomena. Besides basic methodological training, the learning objectives of the various disciplines studied are organised into distinct research areas, and according to geographical and socio-cultural criteria. This aims, first and foremost, to allow doctoral students to further their training in a discrete area of study, through tailored educational activities, as well as through seminars focused on launching independent research in their specific field of study. Additionally, the programme includes a set of learning activities common to all students, some centred on the contacts between the various linguistic areas, and some on the three subject areas identified by the programme title (language, literature, and intercultural studies). The programme also includes training on computer-based analytical tools, which are now extensively used internationally. The result of this educational pathway is an international scholar in the very best sense of the word, fluent in several languages and able to participate in the scientific debate in Europe and beyond, perfectly positioned to act as a mediator between Italian and international studies.

The linguistic areas of specialisation for the programme are: Arabic, Chinese, Danish, French, Hindi, Japanese, English, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, and German.

### Academic disciplines

- 10/E (Medieval Latin and romance philologies and literature)
- 10/F (Italian studies and comparative literatures)
- 10/H (French studies)
- 10/I (Hispanic studies)
- 10/L (English and Anglo-American studies)
- 10/M (Germanic and Slavic languages, literatures and cultures)
- 10/N (Eastern and African cultures)
- 11/A (History)
- 13/C (Economic history)

### Research topics

Research topics are available on the [University website](#).

### Duration

3 years

### Starting date

1 October



**Places available**

7

**Scholarships**

7 University of Milan

**Doctoral programme coordinator**

Prof. Laura Pinnavaia, full professor in scientific-disciplinary sector L-LIN/12

[laura.pinnavaia@unimi.it](mailto:laura.pinnavaia@unimi.it)

**Admission requirements**

Degree obtained in one of the following classes under Ministerial Decree 270/2004, or in one of the corresponding classes under Ministerial Decree 509/99:

LM-14 Modern Philology

LM-36 Asian and African Languages and Literatures

LM-37 Modern American and European Languages and Literatures

LM-38 Modern Languages for Communication and International Cooperation

LM-39 Linguistics

LM-94 Interpreting and Specialised Translating

**Selection stages – Doctoral programme in Linguistic, Literary and Intercultural Studies in European and Extra-European Perspectives**

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the [University website](#), on the programme webpage, before the start date of the interviews.

*Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the [University website](#), on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview can be in Italian or English, at the applicant's choice. English proficiency will be assessed anyway.



## Doctoral programme in Studies on Organized Crime

### Learning objectives

The doctoral programme in Studies on Organized Crime aims to fulfil the need for highly specialized individuals in a field of such complexity and importance that new scientific know-how, as well as professional profiles and sensibilities, are required. It also aims to provide students with the knowledge (in sociology, history, law, economics, etc.) required to identify, define and contrast manifestations of organized crime, even within the scope of prevention, on the basis of sound theoretical foundations and appropriate methodological approaches.

### Academic disciplines

11/A (History)

12/C (Constitutional and ecclesiastical law)

12/D (Administrative and tax law)

12/E (International, European Union, comparative, economic, market and maritime law)

12/G (Criminal law and criminal procedure)

12/H (Roman law, history of medieval and modern law, and philosophy of law)

13/B (Business administration and management)

13/C (Economic history)

13/D (Statistics and mathematical methods for decisions)

14/A (Political theory)

14/B (Political history)

14/C (Sociology)

14/D (Applied sociology)

01/B (Informatics)

### Research topics

Research topics are available on the [University website](#).

### Duration

3 years

### Starting date

1 October 2024

### Places available

4

### Scholarships

4 University of Milan



**Doctoral programme coordinator**

Prof. Fabio Basile, full professor in scientific-disciplinary sector IUS/17

[fabio.basile@unimi.it](mailto:fabio.basile@unimi.it)

**Admission requirements**

Master's degree of any class

**Selection stages – Doctoral Programme in Studies on Organized Crime**

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the [University website](#), on the programme webpage, before the start date of the interviews.

*Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the [University website](#), on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview can be in Italian or English, at the applicant's choice. English proficiency will be assessed anyway.



## Doctoral programme in Historical Studies

### Learning objectives

The themes of the doctoral programme cover a chronological span that runs from the history of late antiquity to the contemporary age, with a particular focus on political, cultural, economic, religious and institutional history. The programme also delves into studies relating to the history of ideas, science, publishing, political thought, archiving and palaeography.

The primary objective of the doctoral trajectory is to instil in PhD students an aptitude for historical research, as well as to provide them with the tools needed to further develop their methodology and properly use sources. Under their tutors' guidance, doctoral students will have first of all to acquire historical sensibility and a solid knowledge of the nature and development of historical events; moreover, they will need to demonstrate their knowledge of the historical and historiographical debate in the settings in which they occurred. Relying on the use of a specific tool set (bibliography, archival sources, print sources, etc.), the doctoral programme culminates, after 3 years, in the drafting of a final dissertation that demonstrates the PhD student's capacity to navigate complex historical events in a critical and cogent manner.

The doctoral programme also aims to connect students with an international research network, both by establishing contacts with universities and research centres abroad (many co-supervisory arrangements are in place), and by including instructors based at the most prestigious international universities (in France, Germany, UK, Japan, the US and Brazil) in the PhD faculty.

### Academic disciplines

10/A (Archaeological sciences)

10/D (Sciences of antiquity)

11/A (History)

11/C (Philosophy)

13/C (Economic history)

14/B (Political history)

### Research topics

Research topics are available on the [University website](#).

### Duration

3 years

### Starting date

1 October 2024

### Places available

6



## Scholarships

5 University of Milan

1 for implementation of the project of the Department of Historical Studies funded by the Ministry of University and Research (MUR) in the framework of the Departments of Excellence 2023-2027 call under Law no. 232 of 11 December 2016

Doctoral programme coordinator

Prof. Marco Soresina, full professor in scientific-disciplinary sector M-STO/04

[marco.soresina@unimi.it](mailto:marco.soresina@unimi.it)

## Admission requirements

Master's degree of any class

## Reference letters

The Faculty of Instructors requires that 2 reference letters, drawn up according to [Form 2](#) attached hereto, be sent to the email address [annalisa.sena@unimi.it](mailto:annalisa.sena@unimi.it), and to the doctoral programme coordinator at his email address [marco.soresina@unimi.it](mailto:marco.soresina@unimi.it).

## Selection stages – Doctoral programme in Historical Studies

*Submission of applications*

By 2 pm on 27 June 2024

*Qualification assessment date*

The date and outcome of the qualification assessment will be posted on the [University website](#), on the programme webpage, before the start date of the interviews.

*Interviews*

The interview schedule – specifying the place, date and time of the interview for each applicant, the title of his/her research project and the interview mode (in person or online) – will be posted on the [University website](#), on the programme webpage. The above-mentioned posting constitutes notification to the interested parties.

The interview can be in Italian or English, at the applicant's choice. English proficiency will be assessed anyway.



**Annex A**

**DICHIARAZIONE SOSTITUTIVA DI ATTO NOTORIO**

Self drafted affidavit (art. 47 del DPR n° 445/2000)  
(art. 47 Presidential Decree n. 445/2000)

Il sottoscritto/the undersigned

cognome/surname \_\_\_\_\_ nome/name \_\_\_\_\_

nato a/born in \_\_\_\_\_ il/on \_\_\_\_\_

consapevole delle sanzioni penali richiamate dall'articolo 76 del Dpr 445/2000 in caso di dichiarazioni non veritiere e falsità in atti

aware that providing false data and using fake documents are crimes punishable by law (art. 75 and 76 of the Presidential Decree no. 445/2000)

**dichiara sotto la propria personale responsabilità  
declares under his/her own responsibility**

che le pubblicazioni/ i titoli sotto elencati, prodotti in copia tramite upload, sono conformi all'originale.

that the publications and the qualifications listed below, produced as copies, comply with the originals.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Milano, \_\_\_\_\_

Data/date

\_\_\_\_\_

Firma/Signature

Ai sensi dell'art. 3 del DPR 445/2000 l'autocertificazione può essere utilizzata solo dai cittadini appartenenti all'Unione europea. I cittadini non europei devono produrre documenti originali o in copia autenticata secondo la normativa vigente.

According to the art. 3 of the Presidential Decree no. 445/2000, only Eu citizens are entitled to use this form. Non Eu citizens must submit the original documentation or photocopies authenticated in compliance with the law in force.



**Form 1**

**PROGETTO DI RICERCA / PROJECT**

<b>Cognome e nome del candidato</b> Applicant's Name	
<b>Corso di dottorato</b> PhD	

**1) Titolo del progetto / Project title**

**2) Sommario / Abstract**

**3) Obiettivi e rilevanza dei risultati ottenibili nel contesto dello stato dell'arte / Project aims and their relevance in the context of the state of the art**

**4) Descrizione del progetto / Project description**

**5) Bibliografia / References**

Il progetto dovrà avere almeno 2.000 e non più di 4.000 parole, bibliografia esclusa. The project should have at least 2,000 and not more than 4,000 words, excluding references.



Form 2 (Italian version)

LETTERA DI REFERENZA

Cognome e nome del candidato		Corso di dottorato	
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Da compilare in tutte le parti

Cognome e nome del		Ruolo	
Università/Ente			
Indirizzo		Città	
CAP		Paese	
Telefono		Email	
Data			

Come valuta la qualità del candidato rispetto ad altri studenti di pari livello formativo (studenti di un corso, laureandi, ecc...)?

Sotto la media(50%)	Top 50%	Top 25%	Top 10%	Top 5%	Top 2%

Come valuta l'attitudine del candidato alla attività di ricerca?

Inabilitato arispondere	Sotto la media	Media	Buona	Ottima	Eccezionale

Commento (Giudizio personale sul candidato)

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Form 2 (English version)

REFEREE FORM

Applicant's Name		PhD	
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To be completed in all areas

Referee's name		Position/Title	
Institution/Comp			
Address		City	
Zip code		Country	
Phone contact		Email	
Date			

On the following scale, please rank the applicant against other students in comparable fields and indicate the comparison group used.

Bottom 50%	Top 50%	Top 25%	Top 10%	Top 5%	Top 2%

Please rate this applicant in overall promise for the doctorate (check one)

Unable to evaluate	Below Average	Average	Good	Outstanding	Exceptional

Give your comments here  
(Your personal evaluation about the candidate)

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Form 3

**RICHIESTA COLLOQUIO TELEMATICO - ONLINE INTERVIEW**

DA COMPILARSI SOLO SE IL COLLOQUIO PER L'AMMISSIONE È PREVISTO IN PRESENZA DAL BANDO E IL CANDIDATO È IMPOSSIBILITATO A PRESENTARSI

THIS FORM MUST BE FILLED ONLY BY APPLICANTS WHO ARE UNABLE TO SIT THE INTERVIEW ON THE UNIVERSITY PREMISES AS REQUIRED BY THE PHD ADMISSION CALL

IL/LA SOTTOSCRITTO/A - THE UNDERSIGNED

(COGNOME/SURNAME) \_\_\_\_\_

(NOME/NAME) \_\_\_\_\_

PASSAPORTO O CARTA D'IDENTITÀ/PASSPORT OR IDENTIY CARD n° \_\_\_\_\_

EMAIL \_\_\_\_\_

RICHIEDE DI SOSTENERE L'ESAME DI AMMISSIONE AL DOTTORATO IN MODALITÀ TELEMATICA/

REQUESTS TO TAKE THE PHD ADMISSION EXAM REMOTELY

PER I SEGUENTI MOTIVI /FOR THE FOLLOWING REASONS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DATA/DATE

FIRMA DEL RICHDENTE /  
SIGNATURE OF THE APPLICANT

\_\_\_\_\_

\_\_\_\_\_