



Public Competition for Admission to Doctoral Research Programmes at the University of Milan a.y. 2021/2022.

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Dir. DF/FTLI

PUBLIC COMPETITION FOR ADMISSION TO DOCTORAL RESEARCH PROGRAMMES AT THE UNIVERSITY OF MILAN - A.Y. 2021/2022.

THE RECTOR

- having regard to Italian 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 Article 4 of Italian Law No. 210, dated 3 July 1998, as amended by art. 19, paragraph 1, of Italian Law No. 240 dated 30 December 2010;
- having regard to Italian 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 Italian Ministerial Decree No. 45 dated 8 February 2013, "Regulation containing the accreditation methods of the locations and doctoral programmes and the criteria for the institution of doctoral programmes by accredited bodies";
- having regard to the Statute of the University of Milan, issued through Rectoral decree on 15 March 2012, as amended;
- having regard to the University Regulations regarding research doctorates issued by Rector's decree of 5 June 2015, as amended;
- having regard to the Ministerial decrees protocol no. 555 of 28 August 2020, protocol no. 808 of 28 November 2018, and protocol no. 917 of 15 October 2019, whereby the Ministry of Education, Universities and Research (MUR), pursuant to Ministerial Decree 45/2013, grants five-year accreditation to the doctoral research programmes proposed by the University of Milan, subject to compliance with the prescribed requirements;
- having regard to the fact that for the 2021/2022 academic year the University intends to institute a new cycle of doctoral programmes;
- having regard to the note of Ministry of Universities and Research (MUR) protocol no. 7403 of 16 March 2021;
- having regard to the decisions of the Academic Senate and of the Board of Directors in the sessions of 16 and 30 March 2021, concerning institution of the 37th doctoral cycle;

HEREBY DECREES



Art. 1 - Institution of Doctoral Research Programmes

The following doctoral research programmes, subject to accreditation by MUR and checks to verify that accreditation requirements have been maintained, are instituted at the University of Milan for academic year 2021/2022 (37th cycle)

- Agricoltura, ambiente e bioenergia - Agriculture, environment and bioenergy
- Diritto pubblico, internazionale ed europeo - Public, international and European Union law
- Filosofia e scienze dell'uomo - Philosophy and human sciences
- Fisica, astrofisica e fisica applicata - Physics, Astrophysics and Applied Physics
- Medicina traslazionale - Translational medicine
- Mente, cervello e ragionamento - Mind, Brain and Reasoning
- Scienze farmacologiche biomolecolari, sperimentali e cliniche - Pharmacological biomolecular sciences, experimental and clinical
- Scienze matematiche - Mathematical sciences
- Sociologia economica e studi del lavoro - Economic sociology and labour studies
- 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

Public competitions for admission to the above doctoral research programmes, based on qualifications and exams, are hereby announced by the University of Milan; the tables annexed to this decree, which are an integral part of this document, contain a brief description of the programmes, the examination window and the links to the university website where the research topics identified by the academic board of each programme, in line with the objectives of the programme, its research and educational focus, can be found. The criteria on which the selection of research topics is based are indicated in art. 21 of the University Regulations for doctoral study.

The number of scholarships may be increased should external funding become available before the deadline of the call for submission of applications.

Foreign candidates 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

In order to apply for a place in the doctoral research programmes, students must have a second cycle degree, an equivalent qualification, or an equivalent qualification by study level (*Master's Degree*) from a foreign University.



The suitability of the foreign academic qualifications in terms of content is appraised by the Examining 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 the international treaties or agreements pertaining to the conferment of qualifications for the continuation of studies.

Those without a second cycle degree may also apply, but admission to the doctoral research programme is subject to completing the second cycle degree by 31 October 2021, failing which they will be excluded from the programme.

Art. 3 - Application for admission

Applications must be submitted through the following procedure by no later than **2 pm on 28 June 2021**:

1. register onto the [the University portal](#). This operation is not required of those already registered on the portal or in possession of University access credentials (graduands or those who graduated from the University of Milan less than a year ago);
2. Login and submit an application for admission to the Doctoral programme admission services - [Servizio di ammissione dottorati di ricerca](#);
3. Pay a non-refundable fee of €50 for selection costs, no later than (2 pm) on 28 June 2021.

During the procedure applicants are required to **upload** the following **documents** as .pdf, .rtf or .jpg files, all under 10 MB:

- A. Diploma Supplement or Bachelor's/Master's diploma (or equivalent qualification obtained in Italy or abroad), with transcript of records. Upcoming graduates are required to submit a certificate of enrolment in lieu of the diploma. The documents must be in Italian, English, French, German or Spanish;
- 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. Any publications;
- F. [Annex A](#).

Non-EU candidates 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, as described above, including payment of the non-refundable fee of €50 for each application submitted.

Self-certifications are accepted in the cases and in accordance with the methods provided for by the laws in force.

Failure to submit any one of the above-mentioned documents (from A to C) will lead to exclusion from the competition.

Qualifications and scientific publications may be submitted in Italian or English.

In addition to the above documentation, on request by the academic board and as specified in the programme tables, applicants must provide one or more reference letters, drafted according to Form 2 attached hereto, from qualified persons who have had a role in their education. The reference letters in .pdf must be e-mailed directly by said persons to the email address indicated in the section regarding the relevant doctoral programme by the competition deadline. In any case candidates may include reference letters written as indicated above with their application. Reference letters are considered part of the candidate's curriculum and no point score is assigned to them.

Art. 4 - Candidates with disabilities

In order to ensure equal treatment of candidates, those holding a certificate of invalidity and/or of disability pursuant to Law 104/1992 may apply for accommodations to the COSP Disability Office (ausili.ammissioni@unimi.it) attaching the certificate issued by the competent public health office. Candidates 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 study programme.

Art. 5 - Candidates with SLD

In order to ensure equal treatment of candidates, those holding a Specific Learning Disorder (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, may apply for accommodations to the COSP SLD Office (ausili.ammissioni@unimi.it) attaching the certificate. 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 study programme.

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 candidates. An Examining Committee set up and appointed in compliance with current regulations will carry out the procedure.



The selection procedure aims to ascertain the qualifications, capacity and aptitudes of candidates for scientific research and their personal motivations. It is based on assessment of the **CV**, a **research project**, which may be inspired by the work of the second cycle degree thesis, and an **online interview**. The research project, which should be drafted using a standard model ([Form 1 attached hereto](#)), is only for selection purposes and does not limit the choice of doctoral thesis in the case of admission.

The CV and research project are assessed before the interview. The outcome of the assessment is available on the University portal.

The CV is evaluated on the basis of the candidate's university studies, publications, professional experience and other qualifications, if any. A **maximum score of 20 points** can be assigned to the **CV**. In assigning the points 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 candidate has obtained his/her qualifications.

A **maximum of 10 points** can be assigned to the **research project**.

Candidates who obtain a score of at least 50% of the maximum points obtainable for the CV and the research project can be called for interview.

The interview is public; the date will be posted to the University portal following the assessment of qualifications. The aim is to verify the candidate's knowledge of the field of the doctorate. The interview includes a seminar-style presentation of the research project, followed by general discussion to verify the candidate's expertise, scientific qualities and motivations. A maximum of 70 points may be assigned to the interview.

The interview is conducted in the language indicated in the doctoral programme table, but candidates may ask to be interviewed in English. Anyway, English language proficiency will be assessed during the interview.

Before the interview, candidates for the doctoral programme in *Linguistic, literary and intercultural studies in European and extra-European perspectives* must sit for a test of their proficiency in the language of specialisation indicated in the research project. The test serves to determine whether or not the candidate is eligible to enrol in the programme.

To sit for the tests, candidates must show one of the following identity documents: identity card; passport; driving licence (Italian).

The outcome of the tests will be communicated by the Committee at the end of the interview.

At the end of the tests, the Committee draws up a general ranking list according to the total score assigned to the candidates for their CV, research project and interview. **Candidates must obtain a minimum score of 70/100 to pass the admission exam.**

The ranking is published online on the [Postgraduate admission rankings page](#) in the days following the examinations.

The Committees must conclude their work no later than **19 July 2021**.



Art. 7 - Admission to the programmes

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

The ranking posted to the University website is equivalent to a notice. Therefore, admitted candidates will receive no written notice.

Applicants admitted to the programmes lose their entitlement if they fail to enrol by the deadline. Their place is then given to the next applicant in the ranking list. This also applies if an admitted applicant withdraws within three months of the beginning of the programme. 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 Doctoral Students Administration Office (*Segreteria Dottorati*), which will provide instructions and deadlines for enrolment.

Applicants ranked in more than one list can only choose one doctoral programme.

Once the final rankings are published, non-EU citizens resident abroad who have been admitted to the doctoral programme will receive an e-mail (from international.students@unimi.it) with the admissions letter for obtaining a study visa.

Art. 8 - Enrolment

Applicants admitted to doctoral programmes can enrol online **from 26 July 2021 to 2pm on 30 July 2021** using the [SIFA enrolment service](#) and following the procedures published on the [University website](#).

Candidates are admitted conditionally and may be excluded from the programme if they do not meet the requirements.

Students enrolled on PhD programmes are required to pay the regional tax for education of € 140.00 and a stamp duty of € 16.00 annually. These amounts are deducted from the grant amount.

Those who give up the grant and foreign students who are recipients of grants awarded by their home country are required to pay an annual course admission and attendance fee of € 980.00, including regional tax and stamp duty.

Applicants with an invalidity equal to or greater than 66%, and/or with a disability pursuant to Law 104/92, may apply for a tuition and regional tax waiver. These students are only required to pay a €16.00 stamp duty.

Students who withdraw from the doctoral programme are not entitled to reimbursement of enrolment fees already paid.



Candidates holding a qualification obtained abroad are required to upload the following documents when completing the online enrolment process:

- Original diploma (Master of Science or equivalent) with a translation into Italian, French, English, German or Spanish;
- Italian tax ID code.

To complete enrolment, the following documents must be sent to the International Students Office, through the [Informastudenti](https://www.unimi.it/en/study/student-services/welcome-desk-informastudenti) service, (<https://www.unimi.it/en/study/student-services/welcome-desk-informastudenti>) by **29 October**:

- Statement of Validity (*Dichiarazione di Valore in Loco*) issued by the Italian Embassy, or Diploma Supplement, or certificate of comparability issued by CIMEA, or other declaration of validity issued by ENIC_NARIC centres;
- Student visa (only for non-EU citizens residing abroad);
- Valid residence permit (only for non-EU citizens).

Verification of the validity of foreign qualifications is made on submission of the official documents. Until then, candidates are admitted to the programme conditionally, and may drop off the ranking if they are found not to meet the requirements.

Art. 9 - Scholarships

The scholarship is granted, in accordance with and by the methods established by existing regulations, in line with the ranking list and consists of an annual gross sum of **€16,350.00**. The amount of the scholarship is exempt from IRPEF income tax in accordance with art. 4 of Italian Law no. 476 of 13 August 1984 but subject to social security contributions pursuant to article 2, paragraph 26 et seq., of Italian Law no. 335 of 8 August 1995 and subsequent amendments.

In the event of equal merit, the scholarships are assigned on the basis of the candidates' economic situation, as expressed by the indicator of equivalent economic situation (ISEE).

The regional study tax and a stamp duty will be deducted from the scholarship for a total sum of €156.00.

Scholarships have a yearly duration and are renewed if the Teaching Board promotes the doctoral student to the following year on the basis of yearly performance.

Starting from the second year, in addition to the scholarship and depending on the University's budgeted financial resources, each doctoral student is given an amount for research in Italy and abroad suited to the type of programme and in any case not less than 10% of the amount of the scholarship itself.



Art. 10 - Obligations of Doctoral Students

The doctoral research programmes entail 1500 hours of training-education and research activities per year. The duties and rights of students are set out in art. 22 of the University Regulations on doctoral research.

Art. 11 - Awarding of Qualification

The qualification of Doctor of Philosophy, abbreviated as "Dott. Ric" or "PhD", is awarded under the conditions indicated in art. 23 of the University Regulations on Doctoral Research.

Art. 12 - 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 EU Regulation no. 679/2016 (General Data Protection Regulation, GDPR) the University undertakes to safeguard the confidential nature of the information provided by applicants; all data provided is processed solely for purposes related to the competition and possibly for managing the applicant's relationship with the University, in compliance with current legislation.

Art. 13 - Relevant regulations

Any items for which no specific provision has been made in this call for applications are regulated in accordance with Italian legislation and regulations governing doctoral research.

Art. 14- Person in charge of the procedure and contacts

Pursuant to Law no. 241 of 7 August 1990, the person in charge of the present competition is dott.ssa Monica Delù (Head of Postgraduate Admissions and Student Public Relations Office). For further information please use the [Informastudenti](#) service, selecting the category: Postgraduates/Doctoral research students.

Milan, 27 May 2021

THE RECTOR
(Elio Franzini)



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, ecosystem 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) transfer research results to the public and private sphere.

The programme is entirely in English.

Academic disciplines

05/A (Plant Biology)

07/A (Agricultural Economics and Rural Surveying)

07/B (Agricultural and Forestry Cultivation Systems)

07/C (Agricultural, Forestry and Biosystems Engineering)

07/D (Plant Pathology and Entomology)

07/E (Agricultural Chemistry and Genetics and Pedology)

07/G (Animal Science and Technology)

10/A (Archaeology)



Research topics

See the areas of research on the [University website](#)

Duration

3 years

Places available

7

Scholarships

7 University of Milan

Doctoral programme coordinator

Prof. Piero Attilio Bianco, full professor in scientific-disciplinary sector AGR/12,
piero.bianco@unimi.it

Admission requirements

Academic qualifications obtained in one of the following classes under Ministerial Decree 270/2004, or 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 Agricultural Biotechnology,
- LM-8 Industrial Biotechnology,
- LM-9 Medical, Veterinary and Pharmaceutical Biotechnology,
- LM-11 Cultural Heritage Conservation,
- LM-17 Physics,
- LM-18 Computer Science,
- LM-26 Security Engineering,
- LM-30 Energy and Nuclear Engineering,
- LM-32 Computer Engineering,
- LM-33 Mechanical Engineering,
- LM-35 Environmental and Land Engineering,
- LM-40 Mathematics,
- LM-42 Veterinary Medicine,
- LM-44 Mathematical-Physics Models for Engineering,
- LM-48 Regional, Urban and Environmental Planning,
- LM-53 Materials Science and Engineering,
- LM-56 Economics,
- LM-60 Natural Sciences,
- LM-69 Agricultural Science and Technology,



- LM-70 Food Science and Technology,
- LM-73 Forestry and Environmental Science and Technology,
- LM-74 Geological Science and Technology,
- LM-75 Environmental and Land Sciences and Technology,
- LM-76 Environmental and Cultural Economics,
- LM-77 Economics and business,
- LM-81 Development cooperation,
- LM-82 Statistics,
- LM-86 Zootechnics and animal technology.

Doctoral programme selection phases - Agriculture, Environment and Bioenergy

Qualification assessment date

The assessment will take place on 6 July 2021.
The assessment outcome will be posted to the University website by the interview start date.

Interviews

Online interviews will be held from 8 to 16 July 2021.

All candidates will have the interview in English.

Exam procedures, the calendar with interview dates and times, and the title of the candidate's project will be posted to the University website.

Online posting is equivalent to a notice to the persons concerned.



Doctoral Programme in Public, International and European Law

Learning objectives

The doctoral programme contributes to the scientific and methodological development of topics addressed by integrating the various areas of research. Topics of study (and comparative study) include the foundations of constitutional law (nature and transformation of political representation, relationships among institutions, role of judges, protection of rights), as well as the complexity of modern administrative law. The latter increasingly involves cooperation among national, European and international administrations in a complex web of duties and responsibilities.

The programme aims to provide in-depth knowledge of research methodologies in the various areas of International Law, International Private and Procedural Law and European Union Law, from the perspective of both institutional profiles and material rights. The profound ongoing changes in the international community, the increase in transnational relations between individuals and businesses, and the increasing competencies of the European Union are such that the different aspects of legal research must be placed in an international and European context.

There are essentially three lines of study: a) protection of rights; b) the functioning of single institutions; c) the bases of rights from the perspective of the different areas of law addressed by the programme.

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 may be viewed on the [University website](#)

Duration

3 years

Places available

8, of which one to be set aside for an employee of public research institutes and centres in highly skilled positions (on paid leave).

Scholarships

7 University of Milan



Doctoral programme coordinator

Prof. Diana Urania Galetta, full professor in scientific-disciplinary sector IUS/10
dianaurania.galetta@unimi.it

Curricula

1. International and European Law
2. Constitutional and Administrative Law

Admission requirements

Academic qualifications obtained in one of the following classes under Ministerial Decree 270/2004, or 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 Public and Corporate and Advertising and Communication,
- LM-62 Political science,
- LM-63 Public administration,
- LM-77 Economics and business,
- LM-78 Philosophy,
- LM-81 Development Cooperation,
- LM-87 Social services and policies,
- LM-90 European studies,
- LM-91 Techniques and methods for information society,
- LMG/01 Law.

Doctoral programme selection phases - International and European Public Law

Qualification assessment date

The assessment will take place on 6 July 2021.
The assessment outcome will be posted to the University website by the interview start date.

Interviews

Online interviews will be held from 8 to 16 July 2020.
The interview can be in Italian or English, at the candidate's choice. Anyway, all candidates will be assessed for English language proficiency, and international students for Italian language proficiency.



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Exam procedures, the calendar with interview dates and times, and the title of the candidate's project will be posted to the University website.

Online posting is equivalent to a notice to the persons concerned.



Doctoral Programme in Philosophy and Human Sciences

Learning objectives

The doctoral programme in Philosophy and Human Sciences is a 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 findings of philosophical research, both theoretical and historical. The multidisciplinary skills of the academic board will provide students with extensive knowledge in specific sectors of basic and applied research. It promotes innovative and cutting-edge research in areas requiring the ability to master theories, methods and techniques from various 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 Politics, (iii) Image Theory and Phenomenology of Experience, (iv) Language Theory, (v) Anthropology and Regional Studies.

Academic disciplines

10/C (Music, Drama, Cinema, Television and Audiovisual Media)

10/G (Glottology and linguistics)

10/M (Germanic and Slavic Languages, Literature and Culture)

11/A (History)

11/B (Geography)

11/C (Philosophy)

11/D (Pedagogy)

14/B (Political History)

14/C (Sociology)

Research topics

Research topics may be viewed on the [University website](#)

Duration

3 years

Places available

5

Scholarships

3 University of Milan



2 scholarships for the “Piero Martinetti” Department of Philosophy project funded by the MUR as part of the *Bando Dipartimenti di Eccellenza 2018-2022*, pursuant to [Law no. 232 dated 11 December 2016](#).

Doctoral programme coordinator

Prof. Andrea Pinotti, full professor in scientific-disciplinary sector M-Fil/04
andrea.pinotti@unimi.it

Admission requirements

All classes of master's degrees

Doctoral programme selection phases - Philosophy and Human Sciences

Qualification assessment date

The assessment will take place on 5 July 2021.
The assessment outcome will be posted to the University website by the interview start date.

Interviews

Online interviews will be held from 8 to 16 July 2021.

The interview can be in Italian or English, at the candidate's choice. Anyway, all candidates will be assessed for English language proficiency.

Exam procedures, the calendar with interview dates and times, and the title of the candidate's project will be posted to the University website.

Online posting is equivalent to a notice to the persons concerned.



Doctoral Programme in Physics, Astrophysics and Applied Physics

Learning objectives

The focus of this doctoral programme is on physics in advanced sectors of pure and applied research. Research covers all areas of modern physics, as set out in the five curricula that aim to facilitate the placement of doctoral students in specific sectors.

The required basic training is ensured by a combination of courses specific to this programme and others exceptionally borrowed from the second-cycle degree programme, with examinations at the end of the first year. Moreover, doctoral students are required to attend an International School, with final assessment through a public seminar. The programme also provides opportunities for discussion and exchanges among students in different curricula, particularly during a workshop at the end of the academic year.

Training is supplemented by coordinated series of subject-specific conferences ("Physics Colloquia"). At the same time, doctoral students will have to undertake original research under the guidance of a tutor and a co-tutor, and report on their progress through annual seminars during which students present their findings to the University's scientific community. This programme also offers internships in Fundamental Physics or High Technology at National and International Laboratories and private Research Laboratories.

The doctoral programme is entirely in English.

Academic disciplines

02/A (Physics of Fundamental Interactions)

02/B (Material Physics)

02/C (Astronomy, Astrophysics, Earth and Planetary Physics)

02/D (Applied Physics, Teaching and History of Physics)

09/E (Electric and Electronic Engineering and Measurements)

01/B (Computer Science)

Research topics

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

Duration

3 years

Places available

22, of which three to be set aside for employees of public research institutes and centres in highly skilled positions (on paid leave)



Scholarships

11 funded by the University of Milan

4 funded by INFN - Istituto Nazionale di Fisica Nucleare

1 funded by Fondazione Centro San Raffaele for the project: “Improving the quality of Radiotherapy by multi-Institution Knowledge- based planning optimization models”.

1 funded by the Istituto di Astrofisica Spaziale e Fisica Cosmica di Milano (IASF MI) dell'Istituto Nazionale di Astrofisica (INAF) for the project: “Thermo- and Chemo- Dynamics of Galaxy Clusters: from XMM-Newton to ATHENA”.

2 funded by the Department of Physics “Aldo Pontremoli” for the projects: “Theoretical development of hybrid organic/antiferromagnetic interfaces” and “Measurements of electromagnetic dipole moments of short-lived baryons at LHC”.

Doctoral Programme Coordinator

Prof. Matteo Paris, full professor in scientific-disciplinary sector FIS/03 matteo.paris@unimi.it

Curricula

1. Astrophysics
2. Material physics
3. Nuclear and particle physics
4. Fundamental theoretical physics
5. Applied physics

Admission requirements

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

- LM-6 Biology;
- LM-8 Industrial Biotechnology;
- LM-9 Medical, Veterinary and Pharmaceutical Biotechnology;
- LM-11 Cultural Heritage Conservation Studies;
- LM-17 Physics;
- LM-18 Computer Science;
- LM-20 Aerospace and Astronautical Engineering;
- LM-21 Biomedical Engineering;
- LM-22 Chemical Engineering;
- LM-25 Automation Engineering;
- LM-26 Security Engineering;
- LM-27 Telecommunication Engineering;
- LM-28 Electrical Engineering;
- LM-29 Electronic Engineering;



- LM-30 Energy and Nuclear Engineering;
- LM-32 Computer Engineering;
- LM-33 Mechanical Engineering;
- LM-40 Mathematics;
- LM-44 Mathematical and Physical Modelling in Engineering;
- LM-53 Materials Science and Engineering;
- LM-54 Chemistry;
- LM-58 Universe Sciences;
- LM-66 Informatics Security,
- LM-71 Industrial Chemistry;
- LM-74 Geological Science and Technology;
- LM-75 Environment and Land Science and Technology;
- LM-79 Geophysics;
- LM-82 Statistics.

Reference letters

The Academic Board requires that two reference letters, drawn up according to [Form 2](#) attached hereto, be sent by email to phd@fisica.unimi.it

Doctoral programme selection phases - Physics, Astrophysics and Applied Physics

Qualification assessment date

The assessment will take place on 6 July 2021.

The assessment outcome will be posted to the University website by the interview start date.

Interviews

Online interviews will be held from 9 to 19 July 2021.

The interview can be in Italian or English, at the candidate's choice. Anyway, all candidates will be assessed for English language proficiency.

Exam procedures, the calendar with interview dates and times, and the title of the candidate's project will be posted to the University website.

Online posting is equivalent to a notice to the persons concerned.



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 di health and lifestyle, also considering the global increase in life expectancy;
3. acquire a solid grounding in the methodological disciplines required to formulate correct experimental hypotheses, define experimental designs and critically interpret results;
4. promote communication between biological and clinical-behavioural research, particularly in relation to movement and physical activity in the area of prevention, mental-physical wellbeing, sport and professional performance, in conditions of health, illness and disability, in a unified perspective;
5. understand the ethical implications of clinical and biological research.

The doctoral programme is conducted entirely in English.

Academic disciplines

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

05/D (Physiology)

05/E (Experimental and Clinical Biochemistry and Molecular Biology)

05/F (Applied biology)

05/H (Human anatomy and histology)

06/A (Pathology and Laboratory Diagnostics)

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 (Clinical Paediatrics)

06/I (Clinical radiology)

06/L (Clinical anaesthesiology)

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

09/G (Systems engineering and bioengineering)

Research topics

Research topics may be viewed on the [University website](#)

Duration

3 years

Places available

19

Scholarships

15 University of Milan

1 funded by the “Istituti Clinici scientifici Maugeri SPA SB” for the project: “Personalized Approaches for Treatment and Risk Stratification in Breast Cancer”.

1 funded by the “Fondazione Angelo Bianchi Bonomi ” for the project: “The Role of Increased Clearance of Von Willebrand Factor (VWF) in the Pathogenesis of Partial VWF Deficiency Using Advanced Biochemical and Genetic Approaches”

1 funded by I.R.C.C.S. Policlinico San Donato for the project: “Assessing the Role of the Autonomic Nervous System in the Self-Regulation of Cerebral Blood Flow in Physiological Conditions and in Critical Situations”

1 scholarship for the Department of Oncology and Hematology-Oncology project funded by the MUR as part of the *Bando Dipartimenti di Eccellenza 2018-2022*, pursuant to [Law no. 232 dated 11 December 2016](#).

Doctoral programme coordinator

Prof. Chiarella Sforza, full professor in scientific-disciplinary sector BIO/16
chiarella.sforza@unimi.it

Admission requirements

All classes of master's degrees



Doctoral programme selection phases - Translational Medicine

Qualification assessment date

The assessment will take place on 7 July 2021.
The assessment outcome will be posted to the University website by the interview start date.

Interviews

Online interviews will be held from 8 to 16 July 2021.

The interview will be in English.

Exam procedures, the calendar with interview dates and times, and the title of the candidate's project will be posted to the University website.

Online posting is equivalent to a notice to the persons concerned.



Doctoral programme in Mind, Brain and Reasoning

Learning objectives

Over the past decade, the University of Milan has developed significant skills and produced world-class research in related disciplines, ranging from philosophy of mind, and theories of reasoning to cognitive sciences. Today more than ever, frontier research requires the ability to integrate these types of skills. For this reason, we propose a new doctoral programme offering a strong analytical and epistemological background, and combining theoretical reflection and experimental practice, so as to attract young researchers who intend to study the foundations of human cognition using a multidisciplinary approach. This doctoral programme is currently unparalleled nationally, and will hopefully set a benchmark at a European level.

The doctoral programme is entirely in English.

Academic disciplines

11/C (Philosophy)

11/E (Psychology)

13/A (Economics)

05/D (Physiology)

06/E (Specialty Clinical Surgery)

Research topics

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

Duration

3 years

Places available

4

Scholarships

3 University of Milan

1 funded by the "Luigi Sacco" Department of Biomedical and Clinical Sciences for the project: "Measuring consciousness: from theory to practice"

Doctoral Programme Coordinator

Prof. Francesco Guala, full professor in scientific-disciplinary sector SECS-P/01

francesco.guala@unimi.it



Admission requirements

All master's degree classes

Reference letters

The Academic Board requires that one reference letter, drawn up according to [Form 2](#) attached hereto, be sent by email to phd.mbr@unimi.it

Doctoral programme selection phases - Mind, Brain and Reasoning

Qualification assessment date

The assessment will take place on 6 July 2021.
The assessment outcome will be posted to the University website by the interview start date.

Interviews

Online interviews will be held from 8 to 16 July 2021.

The interview will be in English.

Exam procedures, the calendar with interview dates and times, and the title of the candidate's project will be posted to the University website.

Online posting is equivalent to a notice to the persons concerned.



Doctoral Programme in Pharmacological biomolecular sciences, experimental and clinical

Learning objectives

The doctoral programme, a third cycle programme, 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 of use in 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. Basic research 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 for revising documentation on active compounds and plant protection products and for drug safety and with other clinical centres.

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

The programme is conducted entirely in English.

Academic disciplines

05/D (Physiology)

05/E (Experimental and Clinical Biochemistry and Molecular Biology)

05/F (Applied biology)

05/G (Experimental and Clinical Pharmacological Sciences)

05/H (Human Anatomy and Histology)

05/I (Genetics and microbiology)



06/A (Pathology and Laboratory Diagnostics)

06/D (Specialised Clinical Medicine)

Research topics

Research topics may be viewed on the [University website](#)

Duration

3 years

Places available

11

Scholarships

8 University of Milan

2 funded by the IRCCS Centro San Giovanni di Dio-Fatebenefratelli, under the Lombardy/Veneto system, for the following projects:

- Central and Peripheral mechanisms associated with the development of mental illnesses in comorbidity in association with exposures to stressful events and identification of treatment response biomarkers

- Identification of mechanisms associated with the transmission of vulnerability for depression from one generation to another and potential role of preventive strategies

1 scholarship for the Department of Pharmacology and Biomolecular Science project funded by MUR as part of the *Bando Dipartimenti di Eccellenza 2018-2022*, pursuant to [Law no. 232 dated 11 December 2016](#).

Doctoral programme coordinator

Prof. Giuseppe Danilo Norata, full professor in scientific-disciplinary sector BIO/14
danilo.norata@unimi.it

Admission requirements

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

- LM-6 Biology,
- LM-7 Agricultural Biotechnology,
- LM-8 Industrial Biotechnology,
- LM-9 Medical, Veterinary and Pharmaceutical Biotechnology,
- LM-13 Pharmacy and Industrial Pharmacy,
- LM-17 Physics,
- LM-18 Computer science,
- LM-21 Biomedical engineering,



- LM-41 Medicine and Surgery,
- LM-42 Veterinary medicine,
- LM-55 Cognitive science,
- LM-60 Natural sciences,
- LM-61 Human nutrition,
- LM-69 Agricultural Science and Technology,
- LM-70 Food Science and Technology,
- LM-75 Environmental and Land Sciences and Technology,
- LM-82 Statistics,
- LM/SNT1 Nursing and Midwifery,
- LM/SNT2 Rehabilitation Professions,
- LM/SNT3 Health Professions for Technical Assistance,
- LM/SNT4 Preventive Care Professions.

Reference letters

The academic board requires that one reference letter, drawn up according to [Form 2](#) attached hereto, be sent by email to the coordinator and to the address dottorato.sfsc@unimi.it

Doctoral programme selection phases - Pharmacological biomolecular sciences, experimental and clinical

Qualification assessment date

The assessment will take place on 5 July 2021.
The assessment outcome will be posted to the University website by the interview start date.

Interviews

Online interviews will be held from 8 to 16 July 2021.

All candidates will have the interview in English. The research project will be illustrated through a Powerpoint presentation. Each candidate will have a 10 minutes' presentation and a 5 minutes' discussion.

Exam procedures, the calendar with interview dates and times, and the title of the candidate's project will be posted to the University website.

Online posting is equivalent to a notice to the persons concerned.



Doctoral Programme in Mathematical Sciences

Learning objectives

The doctoral programme in Mathematical Sciences aims to teach students the research techniques and methods typical of the sectors of contemporary Mathematics and their applications, both qualitative and quantitative, so as to obtain the wide ranging scientific and cultural autonomy required to produce original and significant results. The programme will produce graduates with expertise in exploiting the full potential of mathematical tools and methods and statistics to tackle the intrinsic complexity of problems posed by the applied sciences and industry. The first year syllabus includes advanced theory and workshops held by international scholars chosen by the Teaching committee to offer students the opportunity to establish direct contacts with the international scientific community. Doctoral students will have personalised courses under the guidance of a tutor. Once mandatory attendance of courses and examinations are completed, students can concentrate on their chosen research project. Students are assessed on the basis of their doctoral thesis, to which the three-year doctoral programme dedicates considerable attention.

Academic disciplines

01/A (Mathematics)

13/D (Statistics and Mathematical Methods for Decision-making)

Research topics

Research topics may be viewed on the [University website](#)

Duration

3 years

Places available

7

Scholarships

7 University of Milan

Doctoral programme coordinator

Prof. Vieri Mastropietro, full professor in scientific-disciplinary sector MAT/07
vieri.mastropietro@unimi.it

Admission criteria

All classes of master's degrees



Reference letters

The Teaching committee requires that one reference letter, drawn up according to [Form 2](#) attached hereto, be sent by email to segrdott.mat@unimi.it

Doctoral programme selection phases - Mathematical Sciences

Qualification assessment date

The assessment will take place on 9 July 2021.

The assessment outcome will be posted to the University website by the interview start date.

Interviews

Online interviews will be held from 8 to 16 July 2021.

The interview can be in Italian or English, at the candidate's choice. Anyway, all candidates will be assessed for English language proficiency.

Exam procedures, the calendar with interview dates and times, and the title of the candidate's project will be posted to the University website.

Online posting is equivalent to a notice to the persons concerned.



Doctoral Programme in Economic Sociology and Labour Studies

Learning objectives

The doctoral programme in Economic Sociology and Labour Studies aims to provide students with expertise in different areas, essential for the study and regulation of economic phenomena and labour. The programme is highly interdisciplinary: though focusing on economic sociology, it also embraces labour studies, economy and statistics, business organization and behavioural studies. These inter- and multi-disciplinary competencies are important in addressing the role of social and institutional factors in an innovative way within the context of the analysis and regulation of economic and labour phenomena in a complex and rapidly changing society. Besides providing theoretical and practical knowledge in relevant areas, the programme aims to provide strong methodological and empirical research skills, both quantitative and qualitative, in order to keep abreast of recent progress in international social and economic sciences, including non-standard social analysis techniques such as computer modelling and simulation (agent-based modelling).

The doctoral programme is entirely in English.

Academic disciplines

11/E (Psychology)

12/B (Commercial and labour law)

13/B (Business economics)

13/D (Statistics and mathematical methods for decision-making)

14/C (Sociology)

14/D (Applied sociology)

Research topics

Research topics may be viewed on the [University website](#)

Duration

3 years

Places available

6

Scholarships

3 University of Milan

1 funded by Fondazione Collegio Carlo Alberto

1 scholarship for the Department of Department of Social and Political Sciences project funded by the MUR as part of the *Bando Dipartimenti di Eccellenza 2018-2022*, pursuant to [Law no. 232 dated 11 December 2016](#).



1 Research fellowship lasting 36 months for the project: “Access to University, Socio-Economic Background and Student Careers”.

Doctoral programme coordinator

Prof. Gabriele Ballarino, full professor in scientific-disciplinary sector SPS/09
gabriele.ballarino@unimi.it

Admission requirements

All classes of master's degrees

Reference letters

The academic board requires that two reference letters, drawn up according to [Form 2](#) attached hereto, be sent by email to call.esls@unimi.it

Doctoral programme selection phases - Economic Sociology and Labour Studies

Qualification assessment date

The assessment will take place on 5 July 2021.
The assessment outcome will be posted to the University website by the interview start date.

Interviews

Online interviews will be held from 8 to 16 July 2021.

The interview will be in English.

Exam procedures, the calendar with interview dates and times, and the title of the candidate's project will be posted to the University website.

Online posting is equivalent to a notice to the persons concerned.



Doctoral Programme in Linguistic, Literary and Intercultural Studies from European and Extra-European Perspectives

Learning objectives

The doctoral programme, which ranks as 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 correlated interlinguistic and intercultural phenomena. Besides basic methodological training, the learning objectives of the various disciplines are organised by research area and according to geographical and socio-cultural criteria. Doctoral students will first complete the learning activities of their area in detail through personalised lessons and workshops designed to encourage autonomous research in their respective sectors. Moments of common training will also be offered, centred on contacts between the various linguistic areas involved, and on the three sectors - linguistic, literary and intercultural - already specified in the title of this programme. Training also includes learning to use analytical IT tools, which are extensively exploited in the international framework. The programme will train international scholars, in the true sense of the word, fluent in several languages, skilled in understanding and discussing the scientific research of other European and non-European institutions, and able to mediate between Italian and international studies.

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

Academic disciplines

10/E (Philology and Middle Latin and Romance Literature)

10/F (Italian Studies and Comparative Literature)

10/H (French Studies)

10/I (Spanish Studies)

10/L (English and Anglo-American Studies)

10/M (Germanic and Slavic Languages, Literature and Cultures)

10/N (Eastern and African Cultures)

11/A (Historical Disciplines)

13/C (Economic History)

Research topics

Research topics may be viewed on the [University website](#)

Duration

3 years



Places available

7

Scholarships

7 University of Milan

Doctoral programme coordinator

Prof. Maria Vittoria Calvi, full professor in scientific-disciplinary sector L-LIN/07
maria.calvi@unimi.it

Admission requirements

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

- LM-14 Modern Philology,
- LM-36 Languages and Literature of Africa and Asia,
- LM-37 Modern European and American Languages and Literature,
- LM-38 Modern Languages for International Communication and Cooperation,
- LM-39 Linguistics,
- LM-94 Specialised Translation and Interpreting.

Doctoral programme selection phases - Linguistic, Literary and Intercultural Studies from European and Extra-European Perspectives

Qualification assessment date

The assessment will take place on 7 July 2021.
The assessment outcome will be posted to the University website by the interview start date.

Interviews

Online interviews will be held from 8 to 16 July 2021.

The interview can be in Italian or English, at the candidate's choice. Anyway, all candidates will be assessed for English language proficiency.

Before the interview, candidates will be assessed for proficiency in their major language, as set out in the research project, in order to qualify for the programme.

Exam procedures, the calendar with interview dates and times, and the title of the candidate's project will be posted to the University website.

Online posting is equivalent to a notice to the persons concerned.



Doctoral Programme in Historical Studies

Learning objectives

The doctoral programme covers history from late antiquity to the contemporary age, with a focus on political, cultural, economic, religious and institutional history. The programme also delves into the history of ideas, science, publishing, political thought, archiving, and paleography.

Its primary goals are to hone the students' aptitude for historical research, provide them with adequate methodological tools, and teach them how to use historical sources. Under the tutors' guidance, doctoral students will develop their understanding of history, and knowledge of the characters and the course of events. They will also have to prove familiarity with the historical and historiographic debate in its context. At the end of the three-year programme, the doctoral candidates will use specific tools (bibliography, archival sources, printed sources, etc.) to write a final paper demonstrating their ability to understand and analyse critically complex historical events.

The programme provides students with international connections through agreements with foreign universities and research centres (including co-tutorship), and a world-class academic board including professors from prestigious French, German, English, Japanese, American, and Brazilian universities.

Academic disciplines

10/A (Archaeology)

10/D (Classical Antiquity)

11/A (Historical Disciplines)

11/C (Philosophy)

13/C (Economic History)

14/B (Political History)

Research topics

Research topics may be viewed on the [University website](#)

Duration

3 years

Places available

6

Scholarships

5 University of Milan



1 funded by the Department of Historical Studies

Doctoral programme coordinator

Prof. Daniela Saresella, full professor in scientific-disciplinary sector M-STO/04
daniela.saresella@unimi.it

Admission requirements

All classes of master's degrees

Reference letters

The academic board requires that one reference letter, drawn up according to [Form 2](#) attached hereto, be sent by email to: irene.piazzoni@unimi.it

Doctoral programme selection phases - Historical Studies

Qualification assessment date

The assessment will take place on 5 July 2021.
The assessment outcome will be posted to the University website by the interview start date.

Interviews

Online interviews will be held from 8 to 16 July 2021.

The interview can be in Italian or English, at the candidate's choice. Anyway, all candidates will be assessed for English language proficiency.

Exam procedures, the calendar with interview dates and times, and the title of the candidate's project will be posted to the University website.

Online posting is equivalent to a notice to the persons concerned.

Annex A

DICHIARAZIONE SOSTITUTIVA DI ATTO NOTORIO

Self-drafted affidavit
(art. 47 del DPR n° 445/2000)
(art. 47 Presidential Decree no. 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 making false statements and submitting false documents are crimes punishable by law
(articles 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:

Milan, _____

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.

Pursuant to art. 3 of 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 laws in force.

Form 1

PROGETTO DI RICERCA / RESEARCH PROJECT

Cognome e nome del candidato Applicant's Full Name	
Corso di dottorato 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 no more than 4,000 words, excluding references.

Form 2

REFEREE FORM

Applicant's Name		PhD	
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To be completed in all areas

Referee's name		Position/Title	
Institution/Company			
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)
