



**ANNOUNCEMENT OF 15 PHD GRANTS FOR FOREIGN STUDENTS FOR THE  
ADMISSION TO THE DOCTORAL SCHOOLS AND TO INTERNATIONAL DOCTORAL  
COURSES  
(27<sup>th</sup> series):  
CALL FOR APPLICATIONS  
DEADLINE: 5 September 2011**

**Art. 1 – PURPOSE OF THE ANNOUNCEMENT**

For the academic year 2011/2012 the Università degli Studi di Padova, Italy, offers 15 research fellowships for foreign students to attend Doctoral Schools/International Courses (see annex 1 for the list of doctoral schools and international doctoral courses and related research lines).

The duration of the doctoral courses is three years, starting on the 2<sup>nd</sup> January 2012 and ending on the 31<sup>st</sup> December 2014.

Each position will be covered by a scholarship of 13.638,47 euro per year (gross value), fully funded by Fondazione Cassa di Risparmio di Padova e Rovigo.

During the 3-year doctoral programme (2012-2014), the successful candidates will be offered full board and lodging at the ESU – Azienda Regionale per il Diritto allo Studio Universitario. The connected charges will be covered by Università degli Studi di Padova through Fondazione Cassa di Risparmio di Padova e Rovigo.

**Art. 2 – ELIGIBILITY CRITERIA**

Applicants are required to meet the following criteria in order to be eligible:

- To have foreign (non-Italian) citizenship;
- To have foreign (non-Italian) residence. Candidates must be in possession of this requirement within the deadline date.
- To have a foreign (non-Italian) academic qualification acknowledged as equivalent to the Diploma di Laurea/ Laurea Specialistica/Magistrale (at least four years of full time university education). The acknowledgement of the equivalence of the academic degree will be done by the relevant body of the Doctoral School/International Course, for the sole purpose of this competition.

All candidates will be admitted to the selection with due reservation.

The University can at any time exclude applicants lacking admission requirements. This measure will be communicated to the party concerned by e-mail.



### Art. 3 – HOW TO APPLY

Applications for the competition must be filled in exclusively through the online procedure available at: <http://unipd.cineca.it/foreignstudents> within 10.00 a.m. of the deadline date (**5 September 2011**).

The online form must be **printed, signed and must arrive together with a copy of a valid ID** at the following address **by 5 September 2011 (deadline date)**:

Università degli Studi di Padova  
Servizio Formazione alla Ricerca  
via 8 febbraio, 2  
35122 Padova, Italy

**The date of the postmark will not be accepted as an evidence of meeting the application deadline.**

**Applications and documents arriving after the deadline will not be considered.**

In order to fill in the online form applicants must obtain a username and a password then they must fill in the application form by clicking on 'Enter' (see annex 2 for the guidelines for the completion of the application form).

In the application form candidates **must** declare, under their own responsibility, along with any other information considered relevant:

- personal data, date and place of birth, place of residence and the address chosen for the purpose of the competition;
- citizenship;
- academic degree, with an indication of when and from which university it was awarded;
- the Doctoral School/International Course and the chosen curricula they are applying for.

Moreover candidates **must**:

- specify their knowledge of Italian or English;
- write or attach their research plan;
- specify the names and the email addresses of the professors or experts who will write the letters of reference. These letters must be written by professors or experts who have supervised candidates in their studies and research. The requests to fill in the reference letters are sent by the candidate through the online procedure and the reference letters are filled in electronically by the professors/experts;
- attach the scanned copies of the certificates of the academic qualification with the list of the examinations and the marks. If these certificates are written in a language different from Italian or English, an Italian or English translation must also be attached.

Finally candidates **can**:

- specify their education, research and work experiences;
- attach or write an abstract of their thesis (if a thesis was written in order to achieve the degree);
- specify any additional information complementary to the data provided in the application that will be helpful for the assessment of their candidacy;
- attach any other qualification that should be taken into account (e.g. research papers and publications, language knowledge certificates etc.).

The application must be filled in Italian or English.

All the attached documents must be in Italian or English or accompanied by a translation in Italian or English

**Completed on-line application forms must be printed and signed.** A label will be automatically printed together with the application form; this label must be used for the mailing or the delivery of the application.

**Signed application forms must arrive by post at the abovementioned address by 5 September 2011, otherwise exclusion from competition will result.**

Candidates can apply for only one Doctoral School/International Course among the ones listed in Annex 1 – List of Doctoral Schools and International Doctoral Courses. In case of several curricula within one School, the candidates have to choose at most three of them, stating priorities.

We inform applicants that for the academic year 2011/2012, the list of the Doctoral Schools/International Courses is provisional as it has not been approved by the Academic Bodies of the University yet. Application forms will be accepted only for those Doctoral Schools/International Courses that will be approved.

The Università di Padova is not responsible for any lost communication due to inexact addresses or missing or late notice of change of address on behalf of the candidate, or for any postal, cable or e-mail mishaps which are not due to the University.

#### **Art. 4 – EVALUATION COMMITTEE**

The Evaluation committee will be appointed by the Rector according to art. 5 of D.M. 224 of 30.04.1999.

#### **Art. 5 – EVALUATION PROCEDURE**

The relevant body of each School/International Course will decide on the equivalence of the Academic degree of each candidate and will provide the Evaluation Committee (see

art. 4) with a non-mandatory opinion on the academic qualification of the candidates for their admission to the School/International Course.

Subsequently the candidates who have obtained the equivalence of their degree will be selected by the Evaluation Committee on the basis of a comparative evaluation.

The evaluation will be based on the following criteria:

**Educational and professional curriculum:** max 70 points

**Letters of reference:** max 30 points

Only those applicants who obtain at least 70/100 will be included in the final list.

#### **Art. 6 – FINAL LIST FOR THE ADMISSION OF THE SUCCESSFUL CANDIDATES TO THE COURSES**

The final list for the admission of the successful candidates is approved by the Rector by a decree. This list will be made public within **21 October 2011** by means of:

- the publication on the 'albo ufficiale di Ateneo' (official University register);
- the publication on University of Padua's website:

[http://www.unipd.it/unipdWAR/page/unipd\\_en/research\\_en1/en\\_6\\_3\\_P2](http://www.unipd.it/unipdWAR/page/unipd_en/research_en1/en_6_3_P2)

Candidates will be admitted to the chosen Doctoral School/International Course according to the order of the final pass list. Successful candidates will receive a communication by e-mail.

Successful candidates must confirm their will to enrol within the **28 October 2011** by sending a communication: by fax to the number +39 049 8271934 (a copy of a valid ID document must be attached) or by e-mail ([doctoral.grants@unipd.it](mailto:doctoral.grants@unipd.it)) with a scanned copy of a valid ID document.

In the communication they will have to confirm the choice of the Doctoral School/International Course and of the curriculum (if any).

Successful candidates who do not confirm their choice within **28 October 2011** will be considered as renouncing their positions. The places available for replacement will be assigned according to the final list. The eligible candidates will be contacted directly by Servizio Formazione alla Ricerca by e-mail.

On their arrival in Italy, successful candidates who have confirmed their intention to enrol must complete the enrolment procedure by presenting the following documents to Università di Padova – Servizio formazione alla ricerca, located in via del Risorgimento 9, Padova:

- enrolment application form for the Doctoral School/international Course;
- photocopy of a valid identity document;
- legalization of the academic degree or copy of the request of legalization submitted to the embassy/consulate;
- “dichiarazione di valore in loco” (statement of value);
- two passport-size photos.

## **Art. 7 – SCHOLARSHIPS**

The amount of the scholarship is 13.638,47 € per year (gross amount).

The scholarship is subject to social security contribution.

The amount of the scholarship is increased by 50% for periods of study abroad excluding the official country of residence. For periods of study abroad students must have the approval of the Doctoral Council of the School/International Course.

Scholarships are paid by monthly instalments. The first instalment is paid the month following the actual beginning of the course.

Scholarships are subject to the general terms and conditions specified in annex 2.

## **Art. 8 – BOARD AND LODGING**

During the 3-year doctoral programme (2012-2014), the winners will be offered full board and lodging at the ESU – Azienda Regionale per il Diritto allo Studio Universitario.

The connected charges will be covered by the Università degli Studi di Padova through the Fondazione Cassa di Risparmio di Padova e Rovigo.

## **Art. 9 - ATTENDANCE FEES**

Successful candidates will be exempted from paying attendance fees. The connected charges will be covered by the Università degli Studi di Padova through the Fondazione Cassa di Risparmio di Padova e Rovigo.

## **Art. 10 - DOCTORAL STUDENTS' DUTIES**

Doctoral students must carry out regularly the activities pertinent to their approved research plan and, at the end of each year, they must present a report regarding the activities performed to the Doctoral Council of the School/International Course. At the end of the three-year programme, they will also have to present a Doctoral thesis with original contributions.

The relevant body of the School/International Course decides about the admission to the following year on the basis of the evaluation of the work performed by the doctoral student. The relevant body of the School/International Course may, with a justified decision, suggest to the Rector the exclusion of the student from the Doctoral School/international Course.

### **Art. 11 – ATTAINMENT OF THE DEGREE**

The degree of “Dottore di ricerca” is attained once the final exam has been passed. This exam can be repeated, but once only. This exam consists of a discussion with the candidate on his/her thesis.

The evaluation committees of the final exam are formed and nominated according to the University's Regulations.

### **Art. 12 – REFERENCE LAWS**

For any matters which are not mentioned in this competition refer to:

- art. 4 of Law n. 210 dated 03.07.1998;
- DM n. 224 dated 30.04.1999 - Regolamento in materia di Dottorato di Ricerca;
- DR 1179 dated 19.05.2005 - Regulations regarding the Doctoral Schools of the University of Padua - and successive modifications;
- DR 1460 dated 21.07.1999 - Regulations regarding the Doctoral Courses of the University of Padua - and successive modifications;
- Specific Regulations of each Doctoral School/International Course.

### **Art. 13 - PERSONAL DATA PROCESSING**

In accordance with to D.Lgs 196/03, the data supplied will be dealt with on paper or in electronic form according to the dispositions stated and only for those procedures for which they have been required, and they will be used only to this end.

### **Art. 14 - FINAL PROVISIONS**

In accordance with art.5 of Law n. 241 dated 07.08.1990 and successive modifications and integrations, the Official in charge of this procedure is Mrs Donatella Martella – Head of Servizio Formazione alla Ricerca – Università degli Studi di Padova.

This announcement is available on the web site of Università degli Studi di Padova:

[http://www.unipd.it/unipdWAR/page/unipd\\_en/research\\_en1/en\\_6\\_3\\_P2](http://www.unipd.it/unipdWAR/page/unipd_en/research_en1/en_6_3_P2)

Any change or addition to this announcement will be made public through:

- posting on the 'albo ufficiale di Ateneo' (official University register);
- publication on the University of Padua's website:

[http://www.unipd.it/unipdWAR/page/unipd\\_en/research\\_en1/en\\_6\\_3\\_P2](http://www.unipd.it/unipdWAR/page/unipd_en/research_en1/en_6_3_P2)

Further information and detailed instructions can be obtained from:

Università di Padova - Servizio Formazione alla Ricerca

Mrs. Katia Milan (+39 049 8271870)

Mrs. Sara Fedel (+39 049 8271868)

e-mail: [doctoral.grants@unipd.it](mailto:doctoral.grants@unipd.it)

fax +39 049 8271934

The Rector  
Prof. Giuseppe Zaccaria



## LIST OF DOCTORAL SCHOOLS AND INTERNATIONAL DOCTORAL COURSES – 27th SERIES Academic Year 2011/2012

Please note that, at the time of the publication of the call, the list of the Doctoral Schools/Courses has not been definitely approved by the Academic Bodies of the University yet.

### DOCTORAL SCHOOLS

|     |                                                                                         |
|-----|-----------------------------------------------------------------------------------------|
| 1.  | <u>ASTRONOMY</u>                                                                        |
| 2.  | <u>REGENERATION BIOLOGY AND MEDICINE</u>                                                |
| 3.  | <u>BIOMEDICINE</u>                                                                      |
| 4.  | <u>BIOSCIENCES AND BIOTECHNOLOGIES</u>                                                  |
|     | I. Curriculum: BIOCHEMISTRY AND BIOPHYSICS                                              |
|     | II. Curriculum: BIOTECHNOLOGIES                                                         |
|     | III. Curriculum: CELLULAR BIOLOGY                                                       |
|     | IV. Curriculum: EVOLUTIONARY BIOLOGY                                                    |
|     | V. Curriculum: GENETICS AND DEVELOPMENTAL AND MOLECULAR BIOLOGY                         |
|     | VI. Curriculum: NEUROBIOLOGY                                                            |
| 5.  | <u>INTERNATIONAL LAW AND PRIVATE AND LABOUR LAW</u>                                     |
| 6.  | <u>PHILOSOPHY</u>                                                                       |
| 7.  | <u>PHYSICS</u>                                                                          |
| 8.  | <u>LAW</u>                                                                              |
| 9.  | <u>INFORMATION ENGINEERING</u>                                                          |
|     | I. Curriculum: BIOENGINEERING                                                           |
|     | II. Curriculum: INFORMATION SCIENCE AND TECHNOLOGY                                      |
| 10. | <u>MANAGEMENT ENGINEERING AND REAL ESTATE APPRAISAL</u>                                 |
| 11. | <u>INDUSTRIAL ENGINEERING</u>                                                           |
|     | I. Curriculum: CHEMICAL , MATERIAL AND INDUSTRIAL PRODUCTION                            |
|     | II. Curriculum: ENERGY ENGINEERING                                                      |
|     | III. Curriculum: MECHANIC PLANNING AND MOTORCYCLE ENGINEERING                           |
| 12. | <u>MECHATRONICS AND PRODUCT INNOVATION ENGINEERING</u>                                  |
| 13. | <u>DEVELOPMENTAL MEDICINE AND PLANNING SCIENCES</u>                                     |
|     | I. Curriculum: ONCOHEMATOLOGY AND HUMAN GENETICS, RARE DISEASES AND PREDICTIVE MEDICINE |

|                                                                                 |
|---------------------------------------------------------------------------------|
| II. <i>Curriculum:</i> HEALTH PLANNING MODELS/ SYSTEM PLANNING                  |
| 14. <u>ONCOLOGY AND SURGICAL ONCOLOGY</u>                                       |
| 15. <u>MATERIALS ENGINEERING AND SCIENCE</u>                                    |
| 16. <u>ANIMAL AND FOOD SCIENCE</u>                                              |
| I. <i>Curriculum:</i> ANIMAL SCIENCE                                            |
| II. <i>Curriculum:</i> FOOD SCIENCE                                             |
| 17. <u>CIVIL AND ENVIRONMENTAL ENGINEERING SCIENCES</u>                         |
| 18. <u>EARTH SCIENCES</u>                                                       |
| 19. <u>CROP SCIENCES</u>                                                        |
| 20. <u>PHARMACOLOGICAL SCIENCES</u>                                             |
| I. <i>Curriculum:</i> MOLECULAR AND CELLULAR PHARMACOLOGY                       |
| II. <i>Curriculum:</i> PHARMACOLOGY, TOXICOLOGY AND THERAPY                     |
| 21. <u>LINGUISTIC, PHILOLOGICAL AND LITERARY SCIENCES</u>                       |
| 22. <u>MATHEMATICAL SCIENCES</u>                                                |
| I. <i>Curriculum:</i> MATHEMATICS                                               |
| II. <i>Curriculum:</i> COMPUTATIONAL MATHEMATICS                                |
| 23. <u>MEDICAL, CLINICAL AND EXPERIMENTAL SCIENCES</u>                          |
| I. <i>Curriculum:</i> HEPATHOLOGY AND HEPATOBILIARY AND TRANSPLANT SURGERY      |
| II. <i>Curriculum:</i> CLINICAL PHYSIOPATHOLOGY AND NEPHROLOGICAL SCIENCES      |
| III. <i>Curriculum:</i> CLINICAL METHODOLOGY AND ENDOCRINOLOGICAL SCIENCES      |
| IV. <i>Curriculum:</i> NEUROSCIENCES                                            |
| V. <i>Curriculum:</i> CARDIOVASCULAR SCIENCES                                   |
| VI. <i>Curriculum:</i> GERIATRIC AND HEMATOLOGICAL SCIENCES                     |
| VII. <i>Curriculum:</i> RHEUMATOLOGICAL SCIENCES                                |
| 24. <u>MOLECULAR SCIENCES</u>                                                   |
| I. <i>Curriculum:</i> CHEMICAL SCIENCES                                         |
| II. <i>Curriculum:</i> PHARMACEUTICAL SCIENCES                                  |
| 25. <u>PEDAGOGICAL, EDUCATIONAL AND INSTRUCTIONAL SCIENCES</u>                  |
| 26. <u>PSYCHOLOGICAL SCIENCES</u>                                               |
| 27. <u>SOCIAL SCIENCES: INTERACTIONS, COMMUNICATION, CULTURAL CONSTRUCTIONS</u> |
| 28. <u>STATISTICAL SCIENCES</u>                                                 |
| 29. <u>SPACE SCIENCES, TECHNOLOGIES AND MEASUREMENTS</u>                        |

|                 |                                                                                      |
|-----------------|--------------------------------------------------------------------------------------|
| I. Curriculum:  | SCIENCES AND TECHNOLOGIES FOR AERONAUTICS AND SATELLITE APPLICATIONS (STATSA)        |
| II. Curriculum: | MECHANICAL MEASUREMENTS FOR ENGINEERING AND SPACE (MMIS)                             |
| 30.             | <u>VETERINARY SCIENCES</u>                                                           |
| 31.             | <u>HISTORY AND CRITICISM OF ARTISTIC AND MUSICAL HERITAGE AND OF PERFORMING ARTS</u> |
| 32.             | <u>STUDY AND PRESERVATION OF ARCHAEOLOGICAL AND ARCHITECTONICAL HERITAGE</u>         |
| 33.             | <u>TERRITORY, ENVIRONMENT, RESOURCES AND HEALTH</u>                                  |

#### INTERNATIONAL DOCTORAL COURSES

1. ARTERIAL HYPERTENSION AND VASCULAR BIOLOGY
2. FUSION SCIENCE AND ENGINEERING

## GUIDELINES ABOUT DOCTORAL SCHOOL AND INTERNATIONAL DOCTORAL COURSE 27<sup>TH</sup> SERIES - ACADEMIC YEAR 2011/2012

### DOCTORAL SCHOOL: ASTRONOMY

**website:** <http://dipastro.pd.astro.it/dottorandi/dottorandi.html>

**contact person:** [giampaolo.piotto@unipd.it](mailto:giampaolo.piotto@unipd.it)

Padova hosts Italy's largest Astronomical research community. Between the Department of Astronomy and the nearby Astronomical Observatory there are more than 60 staff researchers, well known at an international level, and about 25 postdocs. In Padova there are research groups actively working on observational and theoretical astrophysics, on topics ranging from the solar system, the extrasolar planets, stellar evolution, supernovae, star clusters, galaxies, galactic nuclei (active and not), to observational and theoretical cosmology. Research groups develop advanced astronomical instruments, and are involved in international collaborations for new instruments, both ground-based and in space. The Department of Astronomy is a member of the European Association for Research in Astronomy (EARA: <http://www2.iap.fr/eara/EARA.html>) <http://www2.iap.fr/eara/EARA.html%29>, a collaboration involving six of the major European astronomical institutes, with the aim of fostering research training for young scientists, and the development of research in Astrophysics. Padova pays particular attention to education and training to research, as testified by the 30 doctoral students presently enrolled in our School, and by the high percentage (78%) of researchers who hold a permanent position at universities or research institutes in astronomy, in Italy or abroad, among those who obtained their doctoral (PhD) degree in Padova before 2003.

## DOCTORAL SCHOOL: REGENERATION BIOLOGY AND MEDICINE

**website :** <http://www.dsfarm.unipd.it/html/biomedreg.htm>

**contact person:** [pierpaolo.parnigotto@unipd.it](mailto:pierpaolo.parnigotto@unipd.it)

Biotechnological applications based on chromosome set manipulation, genotyping and epigenetic modulation for the productive improvement of termophilic fish species of interest for culture in developing countries of equatorial Africa.

- Study of neuroestrogen synthesis and cerebral expression of estrogen receptors in relation to the reproductive cycle of teleost fish
- Interactions among circulating adrenocortical prehormones (dehydroepiandrosterone sulfate and cortisone), organic anion transporters, intracrine steroid conversions and peptides acting as adiposity signals in the regulation of the human adipogenic process
- Development of innovative models of cultured human skin for therapeutic and diagnostic purposes
- Localization, quantification and transcriptional regulation of steroidogenic enzymes in the human hair follicle
- Using of nanomaterials to study adipogenesis
- Using of peripheral blood stem cells for obtaining bone and cartilage prostheses
- Proliferative and angiogenic effects of angiogenin and its tryptic peptides, RNase and lactogenin on Huvec cell cultures
- Natural and synthetic biopolymers as support of tridimensional prostheses stereolithographically produced
- Tissue engineering of skeletal muscle
- Peptide mimicry

## DOCTORAL SCHOOL: BIOMEDICINE

**website :** <http://www.imbm.unipd.it/on-line/Home/Offertadidattica/DottoratidiRicerca/articolo12001818.html>

**contact person:** [giorgio.palu@unipd.it](mailto:giorgio.palu@unipd.it)

The School offers a strong interdisciplinary research program based on the study of several aspects of the molecular mechanisms of physiology and their alteration during degenerative, neoplastic and infectious diseases. Research is also focused on the development of new diagnostics and therapies. Specific research fields are as follows:

- Structure and function of viral genes and their interaction with host genes involved in signal transduction, apoptosis, cell cycle and oncogenesis. genetic and biochemical mechanisms of resistance to antiviral drugs
- Development of viral and bacterial vectors for gene therapy and vaccine delivery; development of alternative delivery systems
- Bacterial pathogenetic mechanisms; drug-target finding
- Identification and development of new anti-tumour drugs
- Molecular basis of central and periferic nervous system physiopathology
- Tissue engineering and regenerative medicine
- Physiopathology of reproduction, development of diagnostic approaches and therapies of sterility
- Development of new image diagnostic technologies
- Structure-function studies of enzymes involved in proteins redox homeostasis using X-ray, NMR and bioinformatics
- Molecular role of micronutrients and vegetal antioxidants in the control of aging and degenerative and neoplastic pathologies
- Bioelectronics and nano-technologies: new materials for biosensor development
- Role of growth factors (Wnt, TGF-beta, Notch) in signal transduction during embryogenesis, development and carcinogenesis
- Function and transcriptional regulation of extracellular matrix genes
- Generation and characterization of murine models to study hypertention, inflammation, neoplastic transformation and metastasis
- Hepatitis C pathogenesis and hepatic fibrosis mechanisms

## DOCTORAL SCHOOL: BIOSCIENCES AND BIOTECHNOLOGIES

**website :** <http://www.bbpd.eu>

**contact person:** [giuseppe.zanotti@unipd.it](mailto:giuseppe.zanotti@unipd.it)

The PhD School in “Biosciences and Biotechnologies” is organized in six curricula: Biochemistry, Biotechnologies, Cell Biology, Genetics and Molecular Biology of Development, Evolutionary Biology, Neurobiology.

- The curriculum in Biochemistry focuses on proteins, which are investigated in terms of structure, modulation of gene expression and function. In particular: signal transduction pathways; role of protein phosphorylation; homeostasis of intracellular  $\text{Ca}^{2+}$ ; mitochondrial dysfunction and myocardial ischemia; biochemistry and biophysics of photosynthetic processes; Bioinformatics.
- Reflecting its interdisciplinary character, the Biotechnology curriculum includes animal, vegetal, microbial and agro-alimentary biotechnologies; pharmaceutical and protein's biotechnology; molecular physiology, structural and computational biology.
- Main topics of the Cell Biology curriculum are: the mechanisms of signal transduction; membrane trafficking; structure and function of intracellular organelles; mitochondrial physiopathology and its influence on apoptosis; the host-pathogen interaction.
- The curriculum Genetics and Molecular Biology of Development focuses on the study of the genetic and molecular mechanisms of embryonic development and cell differentiation in normal and pathological conditions; mono- and multigenic human diseases; circadian biological clocks. These studies are carried out using different *in vitro* and *in vivo* systems, including drosophila, zebrafish and mouse.
- The curriculum Evolutionary Biology includes evolutionary ecology (including animal behavior); plant and animal physiology; evo-devo in invertebrates, molecular evolution of fruit development, sexual selection and sperm competition, population genetics and molecular systematics and phylogeny.
- The main topics of the Neurobiology curriculum are: the physiopathology of neuronal ion channels and of the interaction neuron-glia; the molecular mechanisms of migraine and epilepsy; the alterations of  $\text{Ca}^{2+}$  homeostasis in neurodegenerative diseases; the neurobiology of the auditory, vestibular and olfactory systems; the muscle physiopathology, in particular the nerve-muscle interactions and the signalling pathways controlling muscular mass.

Some of the researches are carried out in collaboration with the Venetian Institute of Molecular Medicine (VIMM, <http://www.vimm.it>) and the Centre for Innovative Biotechnologies (CRIBI, <http://www.cribi.unipd.it>) and Novartis Vaccine, Siena, Italy

## DOCTORAL SCHOOL: INTERNATIONAL LAW AND PRIVATE AND LABOUR LAW

**website:** [http://www.dircomp.unipd.it/scuole\\_dottorato.htm](http://www.dircomp.unipd.it/scuole_dottorato.htm)

**contact person:** [manuela.mantovani@unipd.it](mailto:manuela.mantovani@unipd.it)

The school embraces an interdisciplinary perspective, by integrating international law, private Italian and European law, as well as labour law and private comparative law. It aims at training researchers in the following domains:

- Private law, not only considered in the optical of the Italian legal system, but also in comparison with the other European legal systems and in the perspective of their unification
- Labour law and union law in the Italian system, in comparison with the other European legal systems and the international law.
- International private and public law and European Union law also in the perspective of their historical evolution.

## DOCTORAL SCHOOL: PHILOSOPHY

**website:** <http://www.filosofia.lettere.unipd.it/html/dottorati/dottorati.htm>

**contact person:** [g.fiaschi@unipd.it](mailto:g.fiaschi@unipd.it)

Research lines:

The Doctoral School in Philosophy includes three PhD paths:

1. “Philosophy and History of the Ideas”

Main research lines:

- a. Aristotle and the Aristotelianism in the antiquity, Patristics, in the Middle Ages Arab, Byzantine and Latin.
- b. Critical medieval text edition.
- c. The problem of the soul in the patristic and medieval thought.
- d. History of the philosophical historiography.
- e. Modern and contemporary figures and problems of the thought.
- f. Origins and developments of the contemporary anthropology.

2. “Political Philosophy and History of Political Thought” -

Main research lines:

- a. The problem of modern political subjectivity (identity and conflict, thought of difference, political belonging between centralism and federalism, multiculturalism and religious difference, communication and participation in contemporary democracy)
- b. The main political concepts of the modern age: their genesis, logic and modifications (reason of the State, modern political Aristotelianism, Modern School of Natural Law, political utopianism, German classical philosophy, crisis of sovereignty and federalism).

3. “Theoretical and practical philosophy” -

Main research lines:

- a. Theoretical philosophy, with a specific regard on the structure of the scientific knowledge, the religious, and the artistic experience. Moreover, this issue will be especially addressed with respect to the German classical philosophy;
- b. Moral philosophy and applied ethics, with respect to the social ethics and bioethics;
- c. Logic, philosophy of language and philosophy of science.

## DOCTORAL SCHOOL: PHYSICS

**website:** <http://www.fisica.unipd.it/~dott/dottorato.html>

**contact person:** [andrea.vitturi@unipd.it](mailto:andrea.vitturi@unipd.it)

Research lines:

- Theoretical particle physics (contact: Gianguido Dall'Agata, [dallagata@pd.infn.it](mailto:dallagata@pd.infn.it))
- Theoretical astrophysics (contact: Sabino Matarrese, [matarrese@pd.infn.it](mailto:matarrese@pd.infn.it))
- Nuclear physics (contact: Andrea Vitturi, [vitturi@pd.infn.it](mailto:vitturi@pd.infn.it))
- Subnuclear physics (contact: Ugo Gasparini, [ugasparini@pd.infn.it](mailto:ugasparini@pd.infn.it))
- Astroparticle physics (contact: Antonio Saggion, [saggion@pd.infn.it](mailto:saggion@pd.infn.it))
- Condensed matter (contact: Filippo Romanato, [filippo.romanato@unipd.it](mailto:filippo.romanato@unipd.it))
- Biological physics (contact: Amos Maritan, [maritan@pd.infn.it](mailto:maritan@pd.infn.it))

For further details on the research lines at the Department of Physics cf.

<http://www.fisica.unipd.it/index.php?id=ricerca&L=2>

## DOCTORAL SCHOOL: LAW

**website:** <http://www.giuri.unipd.it/~dottorato/>

**contact person:** [roberto.kostoris@unipd.it](mailto:roberto.kostoris@unipd.it)

The PhD School project is designed to have a joint programme for the first year of each cycle, represented by modules of legal topics, aiming to open the scientific and cultural horizons of the young people who are facing for the first time the world of research. At a second stage, and accordingly to the branches defined by the disciplinary scientific fields, specific programmes will be elaborated by each candidate, aiming to supply the educational process with a specialised significance, always promoting, besides that, the interdisciplinary values, and national and international participation to scientific cooperation networks.

The School is articulated in several research areas, which are coordinated with the aim of developing an educational plan for the scientific and professional preparation of a jurist, who, acquiring a method and field knowledge, knows how to critically penetrate every aspect of the many-sided juridical experience, without moreover neglecting the particular focus on the topics concerning the disciplines in which he/she will write his/her doctoral thesis, topics which will be more congenial to him/her with the aim to assure the possibility of spending the title within the entire professional marketplace, in addition to the usual academic career.

## DOCTORAL SCHOOL: INFORMATION ENGINEERING

**website:** <http://www.dei.unipd.it/phd>

**contact person:** [phdschool@dei.unipd.it](mailto:phdschool@dei.unipd.it)

Research lines:

- Control and system theory and applications
- Operations research
- Electromagnetic radiation, instrumentations, measurement procedures and reduction of the radiated em field
- Use of engineering methodologies and techniques to solve medicine and biology problems: Modeling and Control of Biological Systems; Computational Genomics and Proteomics; Systems Biology; Bioinformatics; Bioelectronics; Bioimaging; Processing of Biomedical Data and Signals; Computational Neurosciences; Biomaterials; Biomechanics; Bioengineering of Physical Activity; Rehabilitation Engineering; Telemedicine, Medical Informatics.
- Computer engineering: Software engineering, Information management systems, Computer networks, Computer music, Computation theory and applications
- Study, design and test of microelectronic systems and apparatus (design of low power CMOS circuits for telecommunications and biomedical applications, statistical modelling of integrated circuits, fabrication processes of VLSI devices) and of industrial electronics
- Transmission of information and signal processing: Wideband mobile communication systems (UMTS and B3G); WLAN and ad hoc networks; sensor networks; voice, moving and still images processing; multimedia systems over fixed and mobile networks; fiber optic transmission systems; design of optic instruments; quantum communication; measurement techniques for telecommunication systems, ultrashort laser pulses generation.

For further references concerning research activities, please see following web pages:

<http://www.dei.unipd.it/wdyn/index.php?lingua=en&IDsezione=3299>

## DOCTORAL SCHOOL: MANAGEMENT ENGINEERING AND REAL ESTATE APPRAISAL

**website:** <http://www.gest.unipd.it/en/scuole-di-dottorato/ingegneria-gestionale>

**contact person:** [cipriano.forza@unipd.it](mailto:cipriano.forza@unipd.it)

The Doctoral School in Management Engineering and Real Estate Appraisal includes two PhD curricula: “Management and Engineering” and “Real Estate Appraisal and Land Economics”. The educational programme of the School covers three years and includes both compulsory and optional training activities. The first year is mostly devoted to taking courses and seminars, whilst the second and the third are focused on research activities, particularly those related to the writing of the dissertation, under the supervision of a member of the School faculty.

- “Management and Engineering” curriculum. Main research lines:
  1. Innovation management and economics
  2. Technology management
  3. Management of new products development
  4. Project management
  5. Operations & supply chain management
  6. Quality management
  7. Service management
  8. Organisation theory
  9. Strategy
  10. Complexity management
  11. Mass customisation
  12. Risk management.
- “Real Estate Appraisal and Land Economics” curriculum. Main research lines:
  1. Valuation theory and methodology
  2. Valuation and valorisation of urban real estate
  3. Valuation and management of historical architectonic goods
  4. Land economics
  5. Valuation of the economy of mountain territories
  6. Valuation and management of environmental goods

## DOCTORAL SCHOOL: INDUSTRIAL ENGINEERING

**website:** <http://www.sdii.dimeg.unipd.it/index.php?lang=english>

**contact person:** [paolo.bariani@unipd.it](mailto:paolo.bariani@unipd.it)

Doctoral candidates are recruited into one of the Curricula that offer them a wide range of advanced courses and PhD research activities and projects. The research deals with engineering science and technology aimed at designing, developing and sustaining technologies, products, processes and systems in the following domains:

### **Curriculum in Chemical, Materials and Manufacturing Engineering:**

- Chemical reaction and process systems engineering
- Processes and plants for the production of alternative fuels,
- Safety and risk analysis engineering
- Biological chemical engineering, particle technology
- Specialty chemical syntheses with reference to fluorinated compounds
- Environmental chemical engineering
- Polymer chemical engineering
- Metallurgical engineering
- Nanostructured ceramic composites from preceramic polymers and fillers
- Multifunctional porous ceramics
- Environmentally sustainable ceramics
- Polymer processing engineering,
- Net-shape manufacture and systems
- Precision engineering
- Micro- and nano-manufacturing engineering
- Industrial geometrical metrology
- Mechanics of biological tissues, analysis and manufacturing of biomedical systems

### **Curriculum in Energy Engineering:**

- Thermo-fluid dynamics of single and two phase systems
- Energy saving in refrigeration and industrial processes
- Solar energy conversion
- Environmental control and building physics
- Fluid machines
- Internal combustion engines
- Air propulsion
- Electrical machines and drives - industrial automation
- Electric power systems and high voltage technologies
- Electrotechnics and electrical technologies
- Photometry and lighting engineering
- Controlled thermonuclear fusion

**Curriculum in Mechanical Design and Motorcycle Engineering:**

- Mechanics of two-wheeled vehicles
- Motorcycle riding simulators
- Structural integrity
- Measurement and identification of mechanical systems
- Development of light vehicles for sustainable mobility

## DOCTORAL SCHOOL: MECHATRONICS AND PRODUCT INNOVATION ENGINEERING

**website:** [www.gest.unipd.it/it/dottorati/sdimip](http://www.gest.unipd.it/it/dottorati/sdimip)  
**contact person:** [alessandro.persona@unipd.it](mailto:alessandro.persona@unipd.it)  
[alberto.trevisani@unipd.it](mailto:alberto.trevisani@unipd.it)

### Research Topics:

1. Fatigue assessment of structural components in automatic machines and plants for the manufacturing mechanical industry
2. Fracture Mechanics and analysis of fracture surfaces
3. Structural analysis of mechanical components
4. Design and testing of mechanical components made of polymer matrix composite and nanocomposite
5. Analysis of manufacturing defects and of damage processes
6. Numerical simulation of welding processes
7. Magnetic levitation casting
8. Innovative metallic and composite materials
9. Functional design of mechanical and mechatronic
10. Automatic machines and industrial robots
11. Control techniques for mechatronic systems
12. Power electronics and power conversion
13. Electric, hydraulic and pneumatic actuators
14. Planning, design and simulation of industrial plants, industrial logistics and material
15. Logistic networks design
16. Automated logistic plants design (automated warehouses, automated material handling systems, packaging automated lines, picking shuttle, etc.)
17. Integrated design of the system "product-package-machine"
18. Transportation and person/asset info-mobility
19. Industrial plants maintenance, machines and plants reliability analysis, Reverse logistics and spare parts logistics

## DOCTORAL SCHOOL: DEVELOPMENTAL MEDICINE AND PLANNING SCIENCES

**website:** <http://www.pediatria.unipd.it/on-line/Home.html>

**contact person:** [giuseppe.basso@unipd.it](mailto:giuseppe.basso@unipd.it)  
[giovanni.dagata@unipd.it](mailto:giovanni.dagata@unipd.it)

Research lines:

- **Oncohematology and Human Genetics**  
The main focus and research themes in the areas of Oncohematology, Immunology and Genetics presently include:  
Morphological, immunological, histochemical and molecular evaluations for the diagnoses of oncohematological, and genetically based diseases. Characterization and manipulation of stem cells and modification of cell lines for in vivo and in vitro research purposes.  
Clinical trials and epidemiological studies in the areas of oncohematological and genetic diseases, of congenital and acquired immune deficits, and of pediatric autoimmune diseases.  
Epidemiological studies of infantile tumours.  
Support therapy
- **Rare Diseases: Epidemiology and Genetics**  
The research focus in this sector is on rare diseases. Rare diseases are of particular interest in the medical scientific field since these disease, although little known and often of less interest due to the few number of cases, are often unique scientific “models” to study biological phenomenon of interest to healthy individuals as well. More specifically both basic and clinical research are carried out to understand and outline the specific genetic, biochemical and biological aspects of rare pediatric diseases. The valorization of basic research is needed to increase the underlying knowledge of the biological basis for conditions that can contribute to the discovery of the fundamentally important molecular mechanisms involved and at the same time gain new tools to allow for precocious eziological diagnosis and for specific genetic counseling as well as for development of new therapeutic strategies.
- **Pediatric and Experimental Surgery**  
This area studies the major pediatric diseases of surgical interest to allow for advances in both the introduction and use of new, innovative technologies to achieve the highest possible standard of results. For most pediatric pathologies surgery approaches are complex and multidisciplinary in nature, thus it is extremely vital to use the procedural knowledge to provide tools that allow for the valorization of the general knowledge and to favour innovative research even through results application in applied basic research.  
Specifically the present research includes:  
Complex surgical disease and multidisciplinary approaches.

Severe respiratory system malformations.  
Severe gastro-intestinal tract malformations.  
Malformations of the thoracic-abdominal wall  
Tissue engineering and clinical application.

- Health planning Models/systems planning  
As a priority this area develops applied research themes in the areas of environmental and psychosocial factors concerned with family and community health, with the evaluation of actions to promote health and planning of interventions in favour of the weak, segregated, disadvantaged and/or special needs individuals. Additionally, sanitary programming and planning is carried out with local and national institutions and programmes of international cooperation are developed as well. Studies are also carried out in the areas of analytical and evaluative epidemiology, operational research using stochastic and linear methods as well as graphing and simulation.

## DOCTORAL SCHOOL: ONCOLOGY AND SURGICAL ONCOLOGY

**website:** <http://www.dsoc.medicina.unipd.it/on-line/Home/OffertaDidattica/Dottorato.html#DottoratoENG>

**contact person:** [paola.zanovello@unipd.it](mailto:paola.zanovello@unipd.it)  
[dm.dagostino@unipd.it](mailto:dm.dagostino@unipd.it)

Research lines:

- Molecular oncology and histopathology
- Bioinformatics
- Viral oncology
- Tumor immunology
- Genetic predisposition to cancer
- Gene therapy of cancer
- Onco-hematology
- Tumor surgery and loco-regional treatments
- Tumors of urogenital tract

## DOCTORAL SCHOOL: MATERIALS ENGINEERING AND SCIENCE

**website:** <http://www.chimica.unipd.it/index.php?lang=eng&context=336>

**contact person:** [gaetano.granozzi@unipd.it](mailto:gaetano.granozzi@unipd.it)

Research lines:

- Design of functional materials
- Advanced preparation methods (both bottom-up and top-down)
- Physico-chemical and functional characterization of innovative materials
- Surface properties of functional materials
- Preparation and characterization of thin films and functional coatings
- Preparation and characterization of nanodimensional and nanostructured materials
- Materials for energetics
- Advanced Ceramic Materials
- Modelization of nanostructured materials

## DOCTORAL SCHOOL: ANIMAL AND FOOD SCIENCE

**website:** [http://www.dsa.unipd.it/dottorato/index\\_en.html](http://www.dsa.unipd.it/dottorato/index_en.html)

**contact person:** [martino.cassandro@unipd.it](mailto:martino.cassandro@unipd.it)

The PhD School in “Animal and Food Science” is organized in two curricula: Animal and Food.

### Research lines – Animal Science:

- Husbandry, feeding, conservation and genetic improvement of livestock, pet, wild and game species-populations;
- Biotechnology applied to selection, breeds conservation, animal feeding and husbandry and to traceability of animal products;
- Biostatistics and computer science applied to animal breeding and food science;
- Procedures and systems for genetic evaluation, selection, crossbreeding and inbreeding in animal science;
- Animal nutrition and feeding in livestock;
- Environmental impact of herds, feeding and management strategies aimed to decrease pollutants of farm origin;
- Animal welfare;
- Quality of animal products and food safety;

### Research lines – Food Science:

#### FOOD QUALITY

- Detection of chemical, physical and microbiological characteristics of foods of animal and plant origin;
- Evaluation of food properties in relation to the technological process of production and to the characteristics of the raw material;
- Evaluation of soil composition and growth conditions of crops to improve quality of food of plant origin;
- Investigation of antimicrobial activities of natural and synthetic compounds added to foods or produced by microorganisms during the fermentation process;
- Development of low-risk food processing;
- Chemical, physical, microbiological and sensory characterization of “regional” foods;
- Evaluation and improvement of organoleptic characteristics of foods and study of their impact on consumers by food sensory analysis.

#### FOOD SAFETY

- Assessment of new technological processes to improve preservation of foods;
- Exploitation of innovative technological and microbiological methods to increase food products shelf life and food safety.

#### FOOD TECHNOLOGY

- Assessment of new technological and microbiological processes for food production;
- Identification of chemical, physical and biochemical conditions for the optimization of food manufacturing processes.

#### FOOD ENZYMOLOGY

- Approaches for controlling or preventing the activity of indigenous food enzymes;
- Modification of food constituents by added enzymes;
- Immobilized enzymes for food and bioprocessing applications;
- Enzyme-based biosensors for food analysis.

#### WINE, ALCOHOLIC BEVERAGES AND DISTILLATES TECHNOLOGY AND QUALITY

- Assessment of grapevine cultivation conditions in relation to wine quality;
- Investigation and improvement of technological and microbiological processes in alcoholic beverage and distillates production.

#### NOVEL FOOD AND FUNCTIONAL FOOD

- Development of novel foods, new food ingredients and foods with health-promoting or disease-preventing properties by means of technological processes and/or microbial transformations.

#### FOOD SERVICE

- Development of multidisciplinary approaches to improve technological, microbiological and nutritional aspects related to food and meal preparation and distribution.

#### FOOD INDUSTRY BYPRODUCTS

- Valorisation of byproducts from farm and from food industry by technological and microbiological approaches aimed at extracting bioactive compounds or transforming waste products into value-added substrates and food ingredients.

## DOCTORAL SCHOOL: CIVIL AND ENVIRONMENTAL ENGINEERING SCIENCES

**website:** [http://www.image.unipd.it/scuola\\_dottorato/](http://www.image.unipd.it/scuola_dottorato/)

**contact person:** [stefano.lanzoni@unipd.it](mailto:stefano.lanzoni@unipd.it)

Research lines:

- Fluid mechanics and hydrodynamics
- Fluvial morphodynamics
- Surface hydrology
- Transport of pollutants within surface and subsurface water bodies
- Reclamation of contaminated sites. Solid waste management
- Slope stability
- Environmental geomechanics
- Structural mechanics and engineering
- Computational mechanics
- Dynamics of water-limited vegetation
- Self-organization and networks in nature
- Advanced numerical methods
- Theory and applications of finite-element methods
- Subsurface hydrology
- Ecogeomorphology
- Statistical hydrology and mechanics

## DOCTORAL SCHOOL: EARTH SCIENCES

**website:** <http://www.geoscienze.unipd.it/geoscienze/dottorato/home>  
<http://www.geoscienze.unipd.it/~dottorato/homedott.htm>

**contact person:** [gilberto.artioli@unipd.it](mailto:gilberto.artioli@unipd.it)

The School focuses on the following fields of research:

- Programme 1: Deep Earth
- Programme 2: Sediment systems, past life and deep time
- Programme 3: Mineralogy, petrography and geophysics applied to cultural heritage
- Programme 4: Geological and hydrogeological hazards

Applicants are advised to consult the web pages of the research teams in order to find the contact person of each group

<http://www.geoscienze.unipd.it/~dottorato/documenti/research%20topics.html> .

Applicants should make preliminary contacts with possible Tutors or with the Director of the School, in order to check interest on specific topics and discuss the details.

## DOCTORAL SCHOOL: CROP SCIENCES

**website:** <http://www.sciproveg.com/en/>

**contact person:** [andrea.battisti@unipd.it](mailto:andrea.battisti@unipd.it)

Research lines:

- Plant genetics, genomics and proteomics
- Dynamics of epigenetic states
- Genetic improvement of traits influencing yield
- Resistance to biotic and abiotic stress
- Alteration of plant architecture and control of flowering
- Genetic determinants of apomixis
- Plant-environment interaction
- Interactions between crop production and agronomic techniques
- Crop rotation
- Potential productivity and soil fertility
- Root systems and microbial symbionts
- Ecophysiology and productivity of agricultural and forest plants
- Biochemical, physiological and molecular responses of plants to pathogens
- Insect-plant relationships in agricultural and forest ecosystems
- Plant protection from pests and diseases
- Ecological and molecular analysis of pest and disease populations
- Regulation of fruit development and ripening
- Fruit post-harvest physiology
- Fruit allergenicity
- Molecular basis of fruitlet abscission

## DOCTORAL SCHOOL: PHARMACOLOGICAL SCIENCES

**website:** <http://www.dfem.unipd.it/PostLauream/postlaureamA.htm>

**contact person:** [rosamaria.gaion@unipd.it](mailto:rosamaria.gaion@unipd.it)

Research lines:

- Pharmacokinetics, dynamics and therapeutic applications of natural, synthetic and biotechnological products
- Mechanisms of adverse reactions to drugs and toxic compounds
- Preclinical and clinical drug evaluation
- New approaches to disease treatment
- Critical care therapy
- Pharmacovigilance for the appropriate use of drugs
- Cardiovascular, gastrointestinal, respiratory and endocrine pharmacology
- Neuropsychopharmacology
- Immunopharmacology
- Antibiotics and cancer chemotherapy
- Pharmacogenetics and pharmacogenomics
- Toxicology
- Mutagenesis and cytotoxicity
- Clinical pharmacology
- Therapeutic drug monitoring
- Pharmacoepidemiology
- Pharmacoeconomics
- Intensive neurological, respiratory and cardiocirculatory therapy
- Cell therapy

## DOCTORAL SCHOOL: LINGUISTIC, PHILOLOGICAL AND LITERARY SCIENCES

**website:** <http://www.maldura.unipd.it/dottorato/>

**contact person:** [paola.bagante@unipd.it](mailto:paola.bagante@unipd.it)

The School is divided in the following six curricula:

- Anglo-German Linguistics, Philology and Literature;;
- Classical Philology
- Italian Studies
- Linguistics
- Romance Philology
- Slavic Studies

The research lines can be found at the respective websites, linked to the website of the School.

## DOCTORAL SCHOOL: MATHEMATICAL SCIENCES

**website:** <http://dottorato.math.unipd.it/>

**contact person:** [daipra@math.unipd.it](mailto:daipra@math.unipd.it)

The School focuses on the following fields of research:

- Algebra
- Analysis
- Geometry
- Logic
- Mathematical physics,
- Number theory
- Numerical Analysis
- Operations research-optimization
- Probability-stochastic processes

## DOCTORAL SCHOOL: MEDICAL, CLINICAL AND EXPERIMENTAL SCIENCES

**websites:**

<http://www.dimedia.unipd.it/index.php?page=dottorati-2>

**contact person:** [gaetano.thiene@unipd.it](mailto:gaetano.thiene@unipd.it)

The doctoral school is organized in different clinical and scientific areas:

- Clinical Physiopathology and Nephrological Sciences
- Neurosciences
- Rheumatological Sciences
- Geriatric and haematological Sciences
- Cardiovascular Sciences
- Clinical Methodology, Endocrinological and Diabetological Sciences
- Clinical Hepatology and Hepatobiliar Surgery and Trapiantology

## DOCTORAL SCHOOL: MOLECULAR SCIENCES

**website:** <http://storage.chfi.unipd.it/~sds/>

**contact person:** [maurizio.casarin@unipd.it](mailto:maurizio.casarin@unipd.it)  
[daniela.longo@unipd.it](mailto:daniela.longo@unipd.it)

Research lines:

- 1) Modeling, synthesis, and reactivity:
  - i) Coordination & organometallic chemistry;
  - ii) Metal complexes & metal nanoclusters in catalysis;
  - iii) Molecular Electrochemistry;
  - iv) NMR spectroscopy & Reaction mechanisms.
- 2) Chemistry of biological systems
  - v) Peptides;
  - vi) Proteins.
- 3) Supramolecular chemistry and nanoscience
  - vii) Functional, metal-based molecular systems;
  - viii) Structure and chemistry of surfaces & ultrathin films.
- 4) Material chemistry
  - ix) Functional materials;
  - x) Nanomaterials;
  - xi) Polymeric materials.
- 5) Chemistry for innovative technologies, the environment and cultural heritage
  - xii) Development of analytical methods;
  - xiii) Environmental chemistry;
  - xiv) Technologies for cultural heritage.
- 6) Pharmaceutical Sciences:
  - xv) Design, synthesis and characterization of biologically active compounds
  - xvi) Enzymes, proteins and aminoacids of pharmaceutical interest
  - xvii) Extraction and characterization of natural products

## DOCTORAL SCHOOL: PEDAGOGICAL, EDUCATIONAL AND INSTRUCTIONAL SCIENCES

**website:** <http://www.educazione.unipd.it/index.php?stato=dottorandi>

**contact person:** [marina.santi@unipd.it](mailto:marina.santi@unipd.it)  
[giuseppe.sassano@unipd.it](mailto:giuseppe.sassano@unipd.it)

The Doctoral School has three research areas composed by specific arguments. The research areas are the following:

- Educational and training sciences
- Instructional sciences and communication technologies
- Epistemology and methodology of educational research

## DOCTORAL SCHOOL: PSYCHOLOGICAL SCIENCES

**website:** <http://scuoladott.psy.unipd.it/index.php?l=eng>

**contact person:** [clara.casco@unipd.it](mailto:clara.casco@unipd.it)

Research lines:

- Sensation (visual acuity, contrast sensitivity, visual search, adaptation, spatial and temporal summation, dynamic vision and stereopsis)
- Perception (visual perception, environmental perception, animal perception)
- Visual cognition (representation, visual memory, visual attention, perception and action, visuo-motor behaviour)
- Animal cognition
- Animal models of cerebral lateralization
- Gender identity and sexual orientation: genetic and evolutionary implication in humans
- Lifespan Cognitive Neuroscience
- Attentional and control deficits in patients with brain damage
- Psychobiology of language and language disorders (aphasia, dyslexia)
- Psychophysiology of emotion and anxiety
- Cardiovascular psychophysiology
- Cognitive deficits in sleep deprivation
- Biological basis of neural and psychiatric disorders
- Cognitive development in newborns and infants
- Cognitive and linguistic development
- Social, affective and emotional development
- Conceptual development and learning
- Literacy
- Learning and Instruction
- Psychodiagnosis in childhood and adolescence
- Community psychology and adolescence
- Attention, in relationship to other cognitive processes such as perception, memory, and emotion
- Psychology of language (word perception, comprehension, sentence and text processing etc.)
- Social cognition (causal inferences, social categorization, automatic processes, stereotyping, and cultural differences in social cognition)
- Computer simulation of cognitive processes
- Cognitive neuropsychology related to pathological aspects of cognitive functions in adults
- Methodology of Social Psychology and Personality Research

- Data Analysis and Formal Modelling in Personality and Social Psychology
- Personal and Social Identity
- Interpersonal and Intergroup Conflict Resolution
- Processes of Acculturation
- Work and Organizational Psychology
- Outcome Assessment in Psychotherapy

## DOCTORAL SCHOOL: SOCIAL SCIENCES: INTERACTIONS, COMMUNICATION, CULTURAL CONSTRUCTIONS

**website:** <http://www.sociologia.unipd.it/>

**contact person:** [franca.bimbi@unipd.it](mailto:franca.bimbi@unipd.it)  
[alberta.contarello@unipd.it](mailto:alberta.contarello@unipd.it)  
[italo.desandre@unipd.it](mailto:italo.desandre@unipd.it)

Research lines:

- Theories and research approaches for the analysis of cultural and communication processes and social reproduction;
- Theoretical models and analytical tools of interaction processes and cultural construction;
- World Migration and trans-cultural reconfiguration of European Social and Political Space;
- Religions and religious behaviours;
- Cultural pluralism: public sphere, religions, ethic social issues and mass-media;
- Cultures of citizenship and solidarity, social exclusion processes in the transformation of European social spaces;
- Gender studies in the international context;
- Conflicts and recognition of differences, pluralisation of identities, formation of shared memories at the local and European level;
- Inter-generational relations: social construction of childhood and under-age subjects;
- Social construction of normality and deviance;
- Cultural pluralism: sciences and public opinion;
- Communication and mass-media, social and public communication;
- Ethnography and Qualitative research methodologies;
- Statistic for Social Sciences and Quantitative research methodologies

## DOCTORAL SCHOOL: STATISTICAL SCIENCES

**website:** <http://www.stat.unipd.it/phd>

**contact person:** [alessandra.salvan@unipd.it](mailto:alessandra.salvan@unipd.it)  
[dottorato@stat.unipd.it](mailto:dottorato@stat.unipd.it)

The doctoral programme in Statistical Sciences aims at developing a comprehensive expertise in statistics for students with a good background in mathematics, providing them with the tools to conduct research in a variety of theoretical and applied fields. Candidates will not only acquire the theoretical tools that underpin the methodology of the discipline, but will also gain substantive experience working on applications. Lectures in the first year courses are delivered in English by leading international researchers and experts. Doctoral candidates completing the programme will be well prepared either to pursue a career in research or to start a job as highly professional statisticians.

Research lines:

- Statistical methodology and its applications. Methodological aspects range from statistical models to inference and computational issues. Applications may concern a variety of fields such as environmental studies, technology, biology, medicine, finance.
- Statistical methods and applications in Economics. In particular: time series analysis, forecasting, statistical methods for labour economics and evaluation of public policies.
- Social Statistics and Demography. In particular, survey methodology, models for individual and aggregated data, segmentation techniques, multilevel models, population structure and dynamics, statistical analysis of demographic behaviours and policies.

## DOCTORAL SCHOOL: SPACE SCIENCES, TECHNOLOGIES AND MEASUREMENTS

**website:** [http://cisas.unipd.it/didactics/STS\\_school/WEB/phd\\_course.php](http://cisas.unipd.it/didactics/STS_school/WEB/phd_course.php)

**contact person:** [giampiero.naletto@unipd.it](mailto:giampiero.naletto@unipd.it)

The School is divided in two Curricula :

Sciences and Technologies for Aeronautics and Satellite Applications - STASA

- Solar system exploration and observations of the Universe
- Space systems
- Satellite navigation
- Optics and space Instrumentation
- Analysis of space missions for astronomy and earth observations

Mechanical Measurements for Engineering and Space - MMIS

- Diagnostics and reliability of mechanisms and structures
- Innovative methods for measurements in fluids
- Innovative methods for mechanical and thermal measurements
- Measurements and instrumentations in aerospace engineering
- Methods of biomedical measurements

## DOCTORAL SCHOOL: VETERINARY SCIENCES

**website:** <http://www.dottorato.veterinaria.unipd.it/index.php?lang=en>

**contact person:** [massimo.morgante@unipd.it](mailto:massimo.morgante@unipd.it)

The main subjects of the research activities are: health and drug surveillance; food quality and food safety, diagnostic, etiopathogenic, epidemiologic, therapeutic and preventive aspects of animal and zoonotic diseases, also considered as human diseases models; veterinary anaesthesiology and surgery; animal reproduction; genetic approach to animal health and animal production; structure and function of animal body; animal ethology and animal welfare.

## DOCTORAL SCHOOL: HISTORY AND CRITICISM OF ARTISTIC AND MUSICAL HERITAGE AND OF PERFORMING ARTS

**website:** <http://www.dottorato-ams.lettere.unipd.it/>

**contact person:** [vittoria.romani@unipd.it](mailto:vittoria.romani@unipd.it)  
[rosa.sentito@unipd.it](mailto:rosa.sentito@unipd.it)

Research lines:

- Architecture, Liturgy and plastic and pictorial decoration in Mediaeval Europe; Art History in Italy in the Mediaeval and Modern Age; Renaissance Painting in Northern Italy; Relations between Italian and European Art in the Renaissance; History of Drawing and Print; History of the Mediaeval and Renaissance miniature; Art History in 19th and 20th century; Methodologies of Criticism and Conservation of artistic heritage; Analysis of artistic sources.
- Monodic liturgical repertoires in Christian West; Renaissance Polyphony; Music in Europe during the XVIII century; Relationships between Poetry and Music; History of Musical Theatre; Electronic Music in the 20th century; Analysis of the musical sources; Methodologies of Criticism and Conservation of musical heritage.
- History of the Italian Cinema; Semiology of Cinema and Audiovisual aids; Documentary cinematography; Filmology; History and Technics of Photography; Theory and Technics of cinematographic language; History and Criticism of Cinema.
- Renaissance and Baroque theatrical treatise; History of the stage management and stage space in the Renaissance and Baroque; History of Illuminotechnics; Theatrical Iconography; History of Ballet between 15th and 18th century; Theatre and education in the Renaissance and Baroque; Celebrations and ceremonial theatrical devices between the 15th and 17th century; History of Renaissance and Baroque dramaturgy; Fortunes and influences of Renaissance and Baroque Theatre in the 19th and 20th centuries ; Art of Acting.

## DOCTORAL SCHOOL: STUDY AND PRESERVATION OF ARCHAEOLOGICAL AND ARCHITECTONICAL HERITAGE

**website:** <http://www.archeologia.unipd.it/wp3/dottorato/>

**contact person:** [giovanni.leonardi@unipd.it](mailto:giovanni.leonardi@unipd.it)

Research lines:

- Greek archaeology
- Roman archaeology
- Pre-protohistoric archaeology
- Methods in archaeology
- Ancient topography
- Surveying for cultural heritage
- Chemico-physical, mineralogical and petrographical investigations on materials constituting the cultural heritage
- Structural aspects of historical constructions

## DOCTORAL SCHOOL: TERRITORY, ENVIRONMENT, RESOURCES AND HEALTH

**website:** <http://www.tesaf.unipd.it/School/>

**contact person:** [marioaristide.lenzi@unipd.it](mailto:marioaristide.lenzi@unipd.it);  
[luigi.sartori@unipd.it](mailto:luigi.sartori@unipd.it);  
[tommaso.anfodillo@unipd.it](mailto:tommaso.anfodillo@unipd.it);  
[vasco.boatto@unipd.it](mailto:vasco.boatto@unipd.it)

Research lines:

### **Ecology curric.**

- Ectomycorrhizal dynamics in the forest expansion on sandy soils
- The role of ectomycorrhizae and soil nutrients in naturally expanding alpine forests
- Short-term effects of thinning on forest decline
- Effects of climate change on forest ecosystems
- Carbon balance of forest ecosystems
- Global determinants of treeline
- Forests and bioenergy
- Fitoremediation
- Landscape ecology
- Forest dynamics
- Tree water relations

### **Economics curric.**

- Agrifood sector competitiveness
- European agricultural policy
- Food quality, made in Italy, geographical indications, organic products
- Marketing of agrifood products
- European rural development
- Economics of bioenergy

### **Mechanics of agricultural and forestry processes curric.**

- Water and fertilization management with precision agriculture
- Technologies and machineries for reduction environmental impacts and conservation of natural resources
- Technologies in precision agriculture and forestry
- Energy supply in agriculture and forestry, energy saving and by-product retrieval

**Hydronomy curric.**

- Hydrological processes and flash-flood
- Fluvial morphology, sediment transport, mountain rivers
- River and streams dynamics and restoration

**Environmental medicine: nutrition and pollution curric.**

- Pollution and human health
- Hygiene standards related to humans and food safety ones
- Safety standards of air and water
- Working environment safety.
- Food science and technology
- Food quality and safety

## INTERNATIONAL COURSE: ARTERIAL HYPERTENSION AND VASCULAR BIOLOGY

**website** <http://www.dmcs.unipd.it/on-line/Home/Didattica/Dottorato/articolo7002304.html>

**contact person:** [teresamaria.seccia@unipd.it](mailto:teresamaria.seccia@unipd.it)

The International PhD program in Arterial Hypertension and Vascular Biology is based in the Department of Clinical and Experimental Medicine (DMCS)-Internal Medicine 4 of the University of Padova. This is a referral centre for Arterial Hypertension and cardiovascular diseases in Italy and a Centre of Excellence for Hypertension Research of the European Society of Hypertension. This programme is the first in Europe devoted to Hypertension research and was established in conjunction with the Humboldt-Charité University of Berlin, Germany and the Medical Academy of Gdansk, Poland. It requires a rotation across the three Universities and possibly stages at other leading research centres in Europe and the USA.

Upon completion of the 3 years course it confers a PhD degree which is officially recognized in all three Countries.

### Aim and Organizational Framework

The overall aim of the course is to develop PhD students' knowledge in order to enable them to gradually undertake independent research in the cardiovascular field by enhancing their laboratory skills facing innovative technologies.

After being introduced to a wide array of inter-disciplinary and comprehensive cardiovascular disease programs, each PhD student will be gradually educated to cutting-edge instrumentation, methods and technologies. Thus, he/she will be assigned a specific research project in the field of Arterial Hypertension and Vascular biology under the strict supervision of an experienced tutor.

The program also includes regular seminars on themes of basic and clinical research, clinical care devoted to cardiovascular health, and regular journal clubs and reviews of ongoing research projects in the different laboratories participating to the PhD Program.

The PhD student is required to actively participate in research teams and to spend stage at least one of member University at Berlin or Gdansk for a minimum of 6 months.

PhD students will benefit from the inter-departmental collaboration with Anatomy, Pharmacology, Vascular Surgery and Endocrinology Units, which share their core facilities and expertise in tissue and intracellular protein localization, morphologic and morphometric techniques and tissue transplant in animal models. Moreover, PhD students referring to Padua, Berlin and Gdansk mutually benefit from the integrative and research collaborations among the three Universities.

**The PhD entails specific commitment and training in the following areas:**

1. Experimental research.

- Vascular biology with emphasis on the role of the endothelium and endothelial dysfunction and on its role in the control of vascular tone.
- Pathophysiology of salt and water homeostasis.
- Endocrine control of blood pressure.
- Methodologies of molecular analysis.
- Experimental atherogenesis.

Analysis of the model of arterial hypertension.

- Experimental and molecular pharmacology.
- Principles of pharmacokinetics and pharmacodynamics applied to arterial hypertension.

## 2. Clinical research.

- Epidemiology and statistics applied to hypertension.
- Principles of pharmacoeconomics applied to hypertension.
- Methodologies for assessment of target organ damage in hypertension.
- Pathophysiology of the secondary forms of hypertension.
- Guidelines for risk stratification and treatment.
- Design and planning of clinical trials in hypertension.

To date the PhD Program has been extremely successful in reaching these goals as testified not only by an impressive list of publications of the most prestigious journals in the field of Hypertension but also by the swift (immediately after and sometimes even before graduation) appointment of practically all the PhD students in industries and academic or hospital positions of the past years.

## INTERNATIONAL COURSE: FUSION SCIENCE AND ENGINEERING

**website:** <http://www.igi.pd.cnr.it/education/eudoctorate.html>

**contact person:** [piero.martin@unipd.it](mailto:piero.martin@unipd.it)

### Background and aims of the Ph.D. course

Europe has a strong need to attract and educate young people in fusion science and engineering. With the start of ITER construction the field of magnetically confined fusion is undergoing an impressive acceleration. ITER will be the largest magnetic fusion device ever built. ITER is a 17 meters high, 1000 cubic meter plasma volume device, which is under construction in France as a result of a joint project between China, India, Korea, Japan, European Union, Russia and USA. Its goal is to demonstrate the scientific and technological feasibility of fusion by producing 500 MW of fusion power.

Due also to the growing energy demand, and to the consequent big environmental, ethical and political issues, there is a strong and growing expectation on fusion as a sustainable energy source. Fusion needs therefore to be a success, and Europe has a key role in this challenge. Europe has in fact the largest share (40%) in the ITER project, and therefore the main responsibility to make it a success and to develop in parallel credible plans for proto-reactors (the so called DEMO devices).

As the start of the ITER operation is approaching, and fusion is expected to be a growing field, an increasing number of fusion scientists will be needed, both physicists and engineers.

For this reason we have set up a Doctoral Network, among a group of European Universities. They are all already actively and officially linked with their respective national EURATOM Fusion Laboratories and have a solid scientific and research background in the field of fusion science and engineering. In this way we exploit both the best scientific competences and skills from the university side and the best and more effective support from EURATOM Institutions, in particular as far as the availability of state-of-the-art experimental tools and devices is concerned.

The main goal of this doctoral project is to improve the present educational system in the area of fusion. The present education system does not seem adequate to provide the necessary number of graduates nor to provide them with the proper preparation. With this doctoral course we aim at providing the European community with new young scientists, capable to cope with the activities on physics and engineering necessary to realize ITER, the subsequent demonstrative reactor(s), DEMO(S), and, at the end, the commercial thermonuclear reactors. This scientist should also have a background broad enough to be able to interact with companies and energy utility sector. High-tech companies will be in fact deeply involved in ITER construction and in subsequent fusion development. It is therefore extremely important that young researcher are trained on technological and industrial matters.

In this context the programme aims at preparing doctoral graduates, able to give an original contribution to the development of thermonuclear fusion research in a highly interdisciplinary context, where the needed engineering and physics competences complement each other. The availability of the Fusion Laboratories in the network, which offer a wide range of specializations, will allow the candidates, together with the Academic Council, to tailor their own educational path and research activity, balancing competences both in engineering and in physics.

On the basis of this deep culture in the subject, of the proactive environment and of the daily research work in interdisciplinary teams, the graduates should be able to plan new experiments and design and implement the corresponding hardware. Moreover they should be prepared to interact with industry to design and realize key ITER and DEMO components. In this context particular attention will be paid to the problems connected to the design of the thermonuclear reactor.

#### Main topics of the training and of the research experience

The PhD course addresses the subject of controlled thermonuclear fusion in magnetically confined plasmas. Both fusion science and technology topics are taught. The goal of controlled thermonuclear fusion is to bring on Earth the energy, which powers the Sun: an inexhaustible and environmentally sustainable source, to contribute to the solution of the world energy issue.

To reach this goal a number of problems need to be solved, both theoretically and experimentally. This course aim at giving its students the scientific and technological basis to became key players in this important research task. The course covers 3 main areas: Physics of Controlled Thermonuclear Fusion, Engineering of a Magnetically Confined Fusion Reactor, Experimental tools for diagnosing and controlling in real-time fusion relevant plasmas.

Students will be guided from the basics to state-of-the-art problems and solutions. Strong links with the European Fusion program and the ITER project are in place.

ITER will be the largest magnetic fusion device ever built. ITER is a 17 meters high, 1000 cubic meter plasma volume device, which is under construction in France as a result of a joint project between China, India, Korea, Japan, European Union, Russia and USA. Its goal is to demonstrate the scientific and technological feasibility of fusion by producing 500 MW of fusion power. ITER will start its operation in 2019. To be a success and a key step in the achievement of fusion, ITER need a strong support from the scientific community and a large basis of scientists, who could build it and later exploit it. ITER will need a broad range of expertise, in physics and engineering, also on developing areas like material science and plasma control. This PhD course works in tight contact with ITER and aims at educating new generations of future ITER scientists. To this extent, the topics of the classes are selected among those mostly relevant.

The PhD course is supported by experimental activity in three important European devices: the ASDEX Upgrade tokamak in Garching by Muenchen, the RFX-mod reversed field pinch in Padova and the ISSTOK tokamak in Lisbon. The course will use experiments and tools of these three

devices for a modern, experiment based, education. The PhD course at University of Padova will in particular benefit from direct training experience in RFX-mod, which is one of the leading experiments in the world in the field of active feedback control of plasma stability.

**APPLICATION FOR 15 THREE-YEAR GRANTS FOR FOREIGN STUDENTS  
(27<sup>th</sup> series)  
Deadline: 5<sup>th</sup> September 2011  
GUIDELINES**

Please read carefully all the instructions below before completing your on-line application. You will create a Username and Password. Your Username and Password enable you to return to your application as many times as you wish before your final submission.

**General Guidelines**

Before completing the on-line application, please review the call for application for admissions requirements and the deadline dates at:

<http://unipd.cineca.it/foreignstudents>

**Remember, you may apply to only one Doctoral School/International Doctoral course.**

In addition to completing the on-line application, you must print the application form, sign it and send **it together with an ID document** to the following address:

Università degli Studi di Padova  
Servizio Formazione alla Ricerca  
via 8 febbraio, 2  
35122 Padova, Italy

**Signed application forms must arrive by post by 5<sup>th</sup> September 2011, otherwise exclusion from competition will result. The date of the postmark will not be accepted as an evidence of meeting the application deadline**

If you should experience any difficulty when applying online, please send an email describing the problem to **doctoral.grants@unipd.it**

## ONLINE APPLICATION INSTRUCTIONS

### ➤ Step 1 – Data registration - Access your personal account

You must register your data and receive a username and a password before filling in the application form.



UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA

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**CALL FOR APPLICATIONS**  
**15 PHD GRANTS RESERVED TO FOREIGN STUDENTS**  
**DEADLINE: 5TH SEPTEMBER 2011, 10:00 A.M.**

USERNAME   
PASSWORD

If YOU NEED TO GET USERNAME AND PASSWORD: [CLICK HERE](#)  
If YOU LOST YOUR USERNAME AND PASSWORD: [CLICK HERE](#)

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Servizio Formazione alla Ricerca – Università degli Studi di Padova  
Via Risorgimento, 9 - Padova - E-mail: [doctoral.grants@unipd.it](mailto:doctoral.grants@unipd.it)

Click here in order to register your personal data and get username and password

Enter your account information exactly as instructed on the form and then click on 'Save your personal data'. You should pay great attention to the e-mail address provided as your username and password will be sent to this e-mail address. This e-mail address will also be used for any official communication (see article 6 of the call). We suggest you to provide a valid e-mail address that you check regularly

**UNIVERSITÀ DEGLI STUDI DI PADOVA**

## DOTTORATI DI RICERCA

**DATA REGISTRATION - ACCESS YOUR PERSONAL ACCOUNT**

**Welcome!**

All those who complete the registration procedure will automatically receive a username and a password to access the initiatives of the Research and Training to Research area of the Università degli Studi di Padova

All \* relevant fields must be duly completed  
After registration, username and password are sent by email to the specified email address

Surname:

First name:

Gender: ☐ F ☐ M

Birth date:  /  /  1985  
date format dd/mm/yyyy

Country of birth: Country

Birth town:

Email:

**Save Personal Data**

Servizio Formazione alla Ricerca - Università degli Studi di Padova  
Via del Risorgimento, 9 - Padova - E-mail: [doctoral.grants@unipd.it](mailto:doctoral.grants@unipd.it)

**UNIVERSITÀ DEGLI STUDI DI PADOVA**

## DOTTORATI DI RICERCA

**DATA REGISTRATION - ACCESS YOUR PERSONAL ACCOUNT**

**CLICK ON THE BUTTON BELOW TO COMPLETE THE REGISTRATION PROCEDURE**

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| Surname                           | DOTTORATI                            |
| First name                        | SERVIZIO FORMAZIONE ALLA RICERCA     |
| Gender                            | M                                    |
| Birth date                        | 18/03/1974                           |
| Country of birth                  | CZECH REPUBLIC<br>Birth town: PRAGUE |
| Italian Tax identification number | DTTSVZ74C18Z156C                     |
| Email                             | doctoral.grants@unipd.it             |

**Save the Italian Tax identification number DTTSVZ74C18Z156C you may need it in case you lose username and password**

**Complete personal data registration**

Servizio Formazione alla Ricerca - Università degli Studi di Padova  
Via del Risorgimento, 9 - Padova - E-mail: [doctoral.grants@unipd.it](mailto:doctoral.grants@unipd.it)

Click on 'Complete personal data registration' to complete the registration. You will receive an e-mail with your username and password to fill in the application form

Please write down the CODICE FISCALE. This code is necessary in case you forget your username and/or password and you need to retrieve them

Enter your 'Permanent address' and 'Address for correspondence' as instructed on the form and then click on 'Save personal data'

|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <a href="#">Home Page</a><br><a href="#">DOTTORATI SERVIZIO FORMAZIONE ALLA RICERCA</a><br><a href="#">Personal data</a><br><a href="#">Application Form</a><br><a href="#">Help</a> | <b>PERSONAL DATA</b><br><b>Surname</b> DOTTORATI<br><b>First name</b> SERVIZIO FORMAZIONE ALLA RICERCA<br><b>Gender</b> M<br><b>Birth date</b> 18/03/1974<br><small>date format dd/mm/yyyy</small><br><b>Country of birth</b> CZECH REPUBLIC<br><small>Birth town: PRAGUE</small><br><b>Nationality *</b> ARMENIA<br><b>Italian Tax identification number</b> DTT5VZ74C18Z156C<br><b>PERMANENT ADDRESS</b><br><b>Permanent Address *</b> via del Risorgimento 9<br><b>Postal code *</b> 35123<br><b>City *</b> Country CZECH REPUBLIC<br>City Prague<br><b>ADDRESS FOR CORRESPONDENCE WHEN DIFFERENT FROM PERMANENT ADDRESS</b><br><b>Same as permanent address *</b> <input checked="" type="radio"/> SI <input type="radio"/> NO<br><b>Phone</b> <input type="text"/><br><b>Mobile Phone</b> <input type="text"/><br><b>Fax</b> <input type="text"/><br><b>Email *</b> doctoral.grants@unipd.it<br><small>* mandatory fields</small> <a href="#">Save personal Data</a> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Servizio Formazione alla Ricerca - Università degli Studi di Padova  
Via del Risorgimento, 9 - Padova - E-mail: doctoral.grants@unipd.it

Then click on 'Application form' on the top left menu: the following will appear. You can now edit your application form

|                                                                                                                                                                                      |                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>UNIVERSITÀ DEGLI STUDI DI PADOVA</b><br><b>DOTTORATI DI RICERCA</b>                           |                                                                                                                                                                                            |
| <a href="#">Home Page</a><br><a href="#">DOTTORATI SERVIZIO FORMAZIONE ALLA RICERCA</a><br><a href="#">Personal data</a><br><a href="#">Application Form</a><br><a href="#">Help</a> | <p>You can fill in and close the application form within 5th September 2011, 10.00 a.m.</p> <p><a href="#">Edit Your Application Form</a>   <b>code:</b> FORPHDWQSN   Application form</p> |
| <p>Servizio Formazione alla Ricerca - Università degli Studi di Padova<br/> Via del Risorgimento, 9 - Padova - E-mail: doctoral.grants@unipd.it</p>                                  |                                                                                                                                                                                            |

## ➤ Step 2 – Application form – Reference letters and attachments

**Reminder:** You may stop and save your work to continue at a later time while completing the on-line application.

After having filled in/modified or deleted each field it is necessary to click on the **<Update>** button to save the data. The data saved in this way are provisional: they can still be modified.

In order to save permanently the data it is necessary to close the application form.

After you've closed your on-line application you may not make further modifications (changes, additions, etc.) to it.

All the sections of the application must be filled in Italian or English

**Fields marked with an asterisk (\*) are mandatory**

### REFERENCE LETTERS



We advise you to fill in first the field 'Reference letters', so that the request will be sent even if you haven't closed the procedure and experts will have more time to submit the letters.

The application form must be closed even if the letters have not been submitted by the experts. You will be able to enter the procedure after the final closure to check whether and when the letters are submitted.

In order to fill in the field 'Reference letters' click on 'Compile' on the top left menu and then click

on the icon  near 'Sezione-Reference Letters'

Universit  degli Studi di PADOVA

**Application form - 15 PhD grants for foreign students - 27 series**

SEZIONE - REFERENCE LETTERS

  Names and the email addresses of the professors or experts who will write the letters of reference. They should be written by teachers under whom you have studied or pursued research or by someone who has supervised your work in the proposed field of study. Letters of reference cannot be written by persons related to you either by blood or marriage or by personal friends.

  DOCTORAL SCHOOL/INTERNATIONAL COURSE

  PERSONAL DATA

 Permanent address

 Mailing address if different from permanent address

You must specify the name, surname, institution and email address of two professors or experts who will have to write a reference letter. Then:

- click on <Update>
- click again on the section 'Reference letters'
- click on <Send Mail>

This will enable you to send the request to fill in the reference letter online.

You have to repeat these steps for each expert.

Reference letters are extremely important. They should be written by teachers under whom you have studied or pursued research or by someone who has supervised your work in the proposed field of study. Letters of reference cannot be written by persons related to you either by blood or marriage or by personal friends. Reference letters must be filled in Italian or English by the deadline of the call.

[Compile](#)  
[View](#)  
[Close](#)  
[Home page](#)  
[Images](#)  
[Attach](#)  
[Facsimile](#)

Università degli Studi di PADOVA

Application form - 15 PhD grants for foreign students - 27 series

Names and the email addresses of the professors or experts who will write the letters of reference. They should be written by teachers under whom you have studied or pursued research or by someone who has supervised your work in the proposed field of study.

Letters of reference cannot be written by persons related to you either by blood or marriage or by personal friends.

| n° | First Name           | Last name            | Qualification        | E-mail               | Affiliation          | Letter of Reference |
|----|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------|
| 1. | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | -                   |
| 2. | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | -                   |

\* - Mandatory field

[Update](#) [Cancel](#)

[Compile](#)  
[View](#)  
[Close](#)  
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[Facsimile](#)

Università degli Studi di PADOVA

Application form - 15 PhD grants for foreign students - 27 series

**The data has been updated**

Names and the email addresses of the professors or experts who will write the letters of reference. They should be written by teachers under whom you have studied or pursued research or by someone who has supervised your work in the proposed field of study.

Letters of reference cannot be written by persons related to you either by blood or marriage or by personal friends.

| n° | First Name | Last name | Qualification | E-mail                      | Affiliation | Letter of Reference |
|----|------------|-----------|---------------|-----------------------------|-------------|---------------------|
| 1. | FORMAZIONE | RICERCA   | Servizio      | formazione.ricerca@unipd.it | Padova      |                     |
| 2. | FORMAZIONE | RICERCA   | Servizio      | doctoral.grants@unipd.it    | Padova      |                     |

**SEZIONE - REFERENCE LETTERS**

 Names and the email addresses of the professors or experts who will write the letters of reference. They should be written by teachers under whom you have studied or pursued research or by someone who has supervised your work in the proposed field of study. Letters of reference cannot be written by persons related to you either by blood or marriage or by personal friends.

\* - Mandatory field

Click on 'Send Mail'

[Compile](#)  
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Università degli Studi di PADOVA

Application form - 15 PhD grants for foreign students - 27 series

Names and the email addresses of the professors or experts who will write the letters of reference. They should be written by teachers under whom you have studied or pursued research or by someone who has supervised your work in the proposed field of study.

Letters of reference cannot be written by persons related to you either by blood or marriage or by personal friends.

| n° | First Name | Last name | Qualification | E-mail                      | Affiliation | Letter of Reference       |
|----|------------|-----------|---------------|-----------------------------|-------------|---------------------------|
| 1. | FORMAZIONE | RICERCA   | Servizio      | formazione.ricerca@unipd.it | Padova      | <a href="#">Send Mail</a> |
| 2. | FORMAZIONE | RICERCA   | Servizio      | doctoral.grants@unipd.it    | Padova      | <a href="#">Send Mail</a> |

\* - Mandatory field

[Update](#) [Cancel](#)

to: asds@ouly.com

from: doctoral.grants@unipd.it

Subject: University of Padova - 15 PhD grants for foreign students - 27 series

Dear Prof./Dr. **XXXX YYYY**

Your name was suggested by NAME/ SURNAME as a referent in his/her application for the selection of 15 PhD grants reserved to foreign students at the University of Padova. By this call the University of Padua aims at supporting foreign young researchers in the framework of the internationalization of its PhD Schools. Letters of reference should be written by someone with whom the candidate has studied or pursued research and are a relevant document in the evaluation process of the candidates. Therefore we would be very grateful if you could accept to provide the reference letter by using the following url: <http://unipd.cineca.it/foreignstudents/experts>

Your co-operation would be highly appreciated and we kindly recommend you to complete and submit the form no later than September 5th, 2011 at 10.00. Once you have completed the form on line, it should be transmitted through the Web by clicking the button 'DEFINITIVE SAVE' located at the bottom of the form.

With many thanks for your kind attention.

Sincerely,

University of Padova  
Servizio formazione alla ricerca

SEND

Click on 'Send' again

Servizio Formazione alla Ricerca - Università degli Studi di Padova  
Via del Risorgimento, 9 - Padova - E-mail: [doctoral.grants@unipd.it](mailto:doctoral.grants@unipd.it)

**ATTACHMENTS AND IMAGES:** in order to fill in the application form correctly it is necessary to save beforehand the attachments (**exclusively in .pdf format**) by clicking on **<Attach>** or **<Images>** on the top left menu.

The attachments can be linked to the relevant field (e.g. degree certificates and transcripts) only after they have been uploaded. Each file cannot exceed **10MB**.



Remember to write the description of the attachment (e.g. Master diploma, Master transcripts, thesis, etc...) before uploading the file.

View

Home page

Facsimile

Close

Compile

Images

Attach

Attachments

Prot.: FORPHDVQSN

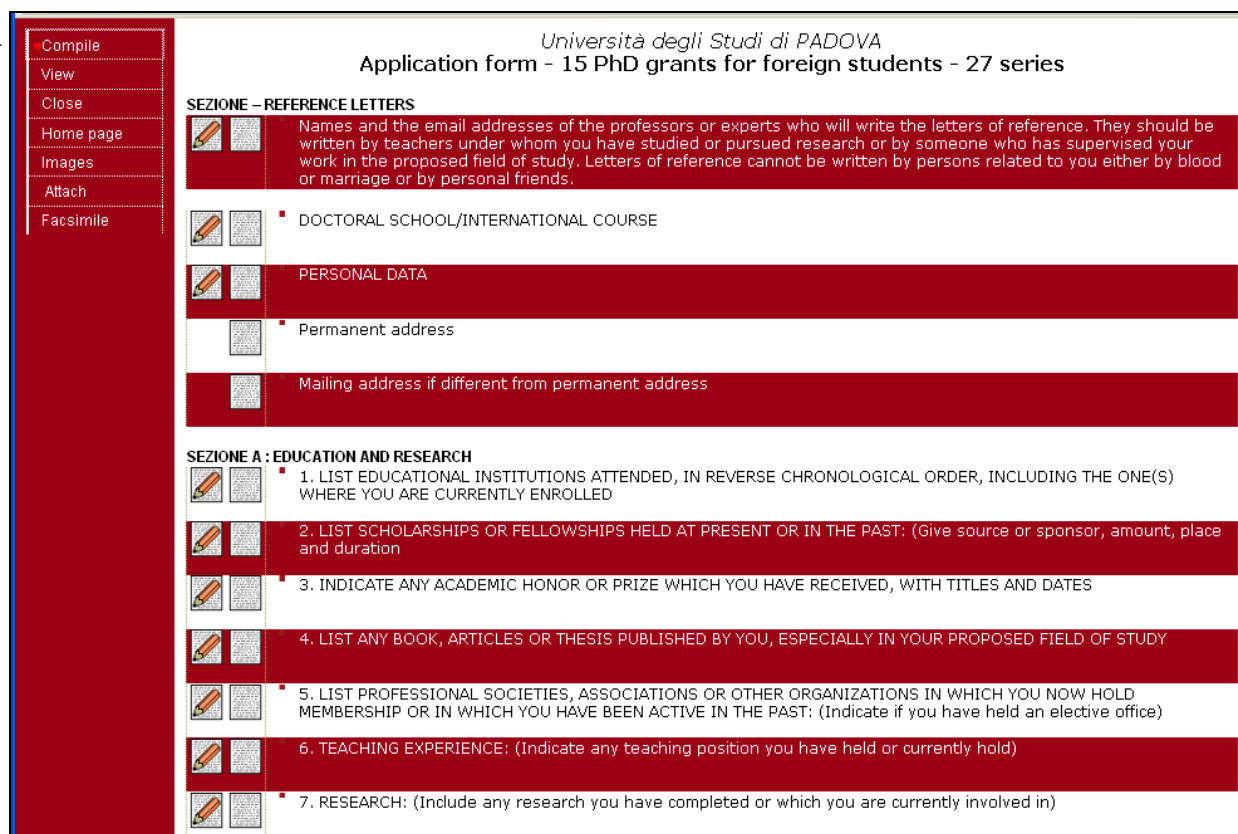
New Attach >

Description:  
Max 100 car.

| ATTACHMENTS (max 64.000.000 Byte / available 64.000.000 Byte) |      |        |              |        |
|---------------------------------------------------------------|------|--------|--------------|--------|
| Name                                                          | Size | Format | Description: | Delete |
| NO ENTRY                                                      |      |        |              |        |

- **You can enter only .pdf formats**
- Maximum size for each file 10.000.000 byte
- One and one only file for each qualification degree
- One and one only file for each exam transcripts
- One and one only file for each publication (not mandatory)
- One and one only file for the thesis (not mandatory)
- One and one only file for other documents (not mandatory)

In order to fill in the different sections of the form click on 'Compile' in the top left menu



*Università degli Studi di PADOVA*  
Application form - 15 PhD grants for foreign students - 27 series

**SEZIONE - REFERENCE LETTERS**

  Names and the email addresses of the professors or experts who will write the letters of reference. They should be written by teachers under whom you have studied or pursued research or by someone who has supervised your work in the proposed field of study. Letters of reference cannot be written by persons related to you either by blood or marriage or by personal friends.

  **DOCTORAL SCHOOL/INTERNATIONAL COURSE**

  **PERSONAL DATA**

 **Permanent address**

 **Mailing address if different from permanent address**

**SEZIONE A : EDUCATION AND RESEARCH**

  **1. LIST EDUCATIONAL INSTITUTIONS ATTENDED, IN REVERSE CHRONOLOGICAL ORDER, INCLUDING THE ONE(S) WHERE YOU ARE CURRENTLY ENROLLED**

  **2. LIST SCHOLARSHIPS OR FELLOWSHIPS HELD AT PRESENT OR IN THE PAST: (Give source or sponsor, amount, place and duration)**

  **3. INDICATE ANY ACADEMIC HONOR OR PRIZE WHICH YOU HAVE RECEIVED, WITH TITLES AND DATES**

  **4. LIST ANY BOOK, ARTICLES OR THESIS PUBLISHED BY YOU, ESPECIALLY IN YOUR PROPOSED FIELD OF STUDY**

  **5. LIST PROFESSIONAL SOCIETIES, ASSOCIATIONS OR OTHER ORGANIZATIONS IN WHICH YOU NOW HOLD MEMBERSHIP OR IN WHICH YOU HAVE BEEN ACTIVE IN THE PAST: (Indicate if you have held an elective office)**

  **6. TEACHING EXPERIENCE: (Indicate any teaching position you have held or currently hold)**

  **7. RESEARCH: (Include any research you have completed or which you are currently involved in)**

For each row there are two main buttons:



Fill in



View

Not all the rows are mandatory. The mandatory rows are

- Doctoral School/International course
- Personal data
- List educational institutions attended, in reverse chronological order, including the one(s) where you are currently enrolled
- Language skills
- Research project
- Reference letters
- Declarations

Here is some information concerning these mandatory fields

## DOCTORAL SCHOOL/INTERNATIONAL COURSE

In this section you have to specify the name of the Doctoral School you are applying for (the full list of the Doctoral Schools/International Courses can be read in annex 1); in case of several curricula within one School, you must choose at most three of them. Please note that, at the time of the issue of the call, the list of the Doctoral Schools/Courses not been approved by the Academic Bodies of the University yet. Application forms will be accepted only for those Doctoral Schools/International Courses that will be approved;

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**Application form - 15 PhD grants for foreign students - 27 series**  
DOCTORAL SCHOOL/INTERNATIONAL COURSE

|                                      |   |
|--------------------------------------|---|
| DOCTORAL SCHOOL/INTERNATIONAL COURSE | * |
|--------------------------------------|---|

\* - Mandatory field

[insert](#) [delete](#)

Click on 'insert', then choose the school from the drop down menu and click on 'select' and 'insert' again

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Codice: FORPHDVQSN

DOCTORAL SCHOOL/INTERNATIONAL COURSE

DOCTORAL SCHOOL/INTERNATIONAL COURSE\*

\* - Mandatory field

[select](#)

If the School is divided in two or more curricula you have to click the Doctoral School/international Course button again and choose at least 1 curriculum

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DOCTORAL SCHOOL/INTERNATIONAL COURSE

**The data has been updated**

 DOCTORAL SCHOOL/INTERNATIONAL COURSE \*

 PERSONAL DATA

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Università degli Studi di PADOVA

## Application form - 15 PhD grants for foreign students - 27 series

### DOCTORAL SCHOOL/INTERNATIONAL COURSE

|                                      |                                                          |
|--------------------------------------|----------------------------------------------------------|
| DOCTORAL SCHOOL/INTERNATIONAL COURSE | Bioscienze E Biotecnologie *                             |
| Curriculum 1                         | <input type="text" value="Biochemistry and biophysics"/> |
| Curriculum 2                         | <input type="text"/>                                     |
| Curriculum 3                         | <input type="text"/>                                     |

\* - Mandatory field

[insert](#)[delete](#)

## PERSONAL DATA

Complete the Personal data section and then click on update. You should pay great attention to the e-mail address provided as it will be used for any official communication (see article 6 of the call). We suggest you to provide a valid e-mail address that you check regularly.

## LIST EDUCATIONAL INSTITUTIONS ATTENDED, IN REVERSE CHRONOLOGICAL ORDER, INCLUDING THE ONE(S) WHERE YOU ARE CURRENTLY ENROLLED).

Here it is mandatory to specify and attach your academic degree (admission qualification): this information is very important for the acknowledgement of your qualification. You have to provide information about the title that allows you to participate to this call, and in particular:

- under "NAME OF THE QUALIFICATION AND TITLE CONFERRED" you have to write the full name of the qualification in the original language as it is styled in the original qualification (e.g. Kandidat nauk, Maîtrise, Diplom, etc). If the qualification is a dual award this should be stated. Indicate if the award confers any nationally accepted title on the holder and what this title is (e.g. Doctor, Ingénieur etc.).

- under "NAME AND STATUS OF THE AWARDING INSTITUTION" the candidate has to provide the name of the institution awarding the qualification and the status of the institution delivering the studies: Private/Independent, Private and State recognised, State, and if applicable who it is accredited by etc.

- under "ACCESS TO FURTHER STUDIES" you have to write if, within the country of origin, the qualification normally provides access to further academic and/or professional study, and in particular if it allows to apply for Doctoral studies in the country where it was obtained;

- you must attach copies of the final certificate/diploma of the academic degrees and a certificate with the list of the examinations and the marks. For this announcement, a foreign academic qualification, in order to be acknowledged as equivalent to the Italian academic qualification of "Diploma di Laurea/ Laurea Specialistica/Magistrale", must have a length of at least four years.



For each row it is possible to attach only one file. However in the attach section of the application form (see explanation above) **you must attach all your diplomas/transcripts and especially translations if needed**

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Università degli Studi di PADOVA

Application form - 15 PhD grants for foreign students - 27 series

1. LIST EDUCATIONAL INSTITUTIONS ATTENDED, IN REVERSE CHRONOLOGICAL ORDER, INCLUDING THE ONE(S) WHERE YOU ARE CURRENTLY ENROLLED

\* at least one item \*

| n°    | INSTITUTION AND LOCATION<br>(List in reverse order. Write name in full. Do not abbreviate) | DATES                |                      | NAME OF QUALIFICATION AND<br>TITLE CONFERRED<br>(in original language) | DATE OF<br>ATTAINMENT<br>(or expected<br>date if not<br>attained yet) | .pdf                 |
|-------|--------------------------------------------------------------------------------------------|----------------------|----------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------|
|       |                                                                                            | from<br>(dd/mm/yyyy) | to<br>(dd/mm/yyyy)   |                                                                        |                                                                       |                      |
| 1.    | <input type="text"/>                                                                       | <input type="text"/> | <input type="text"/> | <input type="text"/>                                                   | <input type="text"/>                                                  | <input type="text"/> |
| 2.    | <input type="text"/>                                                                       | <input type="text"/> | <input type="text"/> | <input type="text"/>                                                   | <input type="text"/>                                                  | <input type="text"/> |
| 3.    | <input type="text"/>                                                                       | <input type="text"/> | <input type="text"/> | <input type="text"/>                                                   | <input type="text"/>                                                  | <input type="text"/> |
| 4.    | <input type="text"/>                                                                       | <input type="text"/> | <input type="text"/> | <input type="text"/>                                                   | <input type="text"/>                                                  | <input type="text"/> |
| 5.    | <input type="text"/>                                                                       | <input type="text"/> | <input type="text"/> | <input type="text"/>                                                   | <input type="text"/>                                                  | <input type="text"/> |
| 6.    | <input type="text"/>                                                                       | <input type="text"/> | <input type="text"/> | <input type="text"/>                                                   | <input type="text"/>                                                  | <input type="text"/> |
| ..... |                                                                                            |                      |                      |                                                                        |                                                                       |                      |

[Update](#) [Cancel](#)

1. LIST EDUCATIONAL INSTITUTIONS ATTENDED, IN REVERSE CHRONOLOGICAL ORDER, INCLUDING THE ONE(S) WHERE YOU ARE CURRENTLY ENROLLED

## LANGUAGE SKILLS

You have to specify at least one language and rate yourself accordingly.

## RESEARCH PROJECT

Write or attach a clear and detailed description of your study objectives and give your reasons for wanting to pursue them. Be specific about your major field and your specific interests within this field. Describe the kind of programme you expect to undertake and explain how your study plan fits with your previous training and your future objectives. This statement is an essential part of your application.

### ➤ Step 3 – Close, print and send your application form



The procedure can and must be closed even if the letters have not been submitted by the experts. You will be able to enter the procedure after the final closure to check whether the letters have been submitted.

- once you've filled in all the fields, click on the 'Close' button on the top left menu to save and register your application form definitely. You will be directed to the 'Closure' procedure section where you will be shown possible errors made when entering the data.

- If a mandatory field has not been completed, an error message ✖ will display in red for the section on which the error occurred. You must click the fill in icon to correct the error and then again on 'Close' in the top left menu. All errors must be corrected before you will be eligible to close your application. Correct or corrected fields are marked with ✔

closure procedure  
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Prot.: FORPHD2N2Z

**DOCTORAL SCHOOL/INTERNATIONAL COURSE** ✖

• Mandatory field - " / DOCTORAL SCHOOL/INTERNATIONAL COURSE"

**PERSONAL DATA** ✖

• Mandatory field - " / Emergency Contact"

• Mandatory field - " / Last qualification and title conferred (in original language)"

• Mandatory field - " / Date of attainment"

• Mandatory field - " / Name and status of the awarding institution (in original language)"

• Mandatory field - " / Official length of programme"

Permanent address ✔

Mailing address if different from permanent address ✔

**SEZIONE A : EDUCATION AND RESEARCH**

**1. LIST EDUCATIONAL INSTITUTIONS ATTENDED, IN REVERSE CHRONOLOGICAL ORDER, INCLUDING THE ONE(S) WHERE YOU ARE CURRENTLY ENROLLED** ✖

• at least one item

**2. LIST SCHOLARSHIPS OR FELLOWSHIPS HELD AT PRESENT OR IN THE PAST: (Give source or sponsor, amount, ...)**

- Once you have completed all required sections and corrected possible errors, click the 'Closure procedure' button at the bottom of the screen. A message confirms your application has been closed and you can now print it. Once you have submitted your application, you cannot use the online system to make changes or additions to your application. However, you will still be able to login to review your application and check whether the reference letters have been submitted.

**THESIS ABSTRACT** ✔

**SEZIONE - STUDY/RESEARCH PLAN**

**RESEARCH PROJECT** ✔

**SEZIONE - ADDITIONAL INFORMATION**

**CURRICULUM** ✔

**SEZIONE - REFERENCE LETTERS**

Names and the email addresses of the professors or experts who will write the letters of reference. They should be written by teachers under whom you have studied or pursued research or by someone who has supervised your work in the proposed field of study. Letters of reference cannot be written by persons related to you either by blood or marriage or by personal friends. ✔

This experts have not completed the procedure:

• [ ]

Experts must close the procedure within the ....

**Declarations** ✔

To continue you need to do "CLOSURE PROCEDURE"

closure procedure

WAIT FOR COMPLETION PROCEDURE

closure procedure  
*Università degli Studi di PADOVA*  
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**THE MODEL HAS BEEN CLOSED**

[Print PDF](#)

- Click the **'Print' button** to print the application form. Only the Personal data section and the list of the files attached will be printed.

**Sign the printed form.**

A label will also be printed with the address for the mailing of the application.

- You must send the signed application form, **together with an ID document**, to the following address:

Università degli Studi di Padova  
Servizio Formazione alla Ricerca  
via 8 febbraio, 2  
35122 Padova, Italy

**Signed application forms must arrive by post by 5<sup>th</sup> September 2011, otherwise exclusion from competition will result.**

**The date of the postmark will not be accepted as an evidence of meeting the application deadline**



## GENERAL TERMS AND CONDITIONS FOR FELLOWSHIPS

These General Terms and Conditions apply to all the students enrolled in a Doctoral Course/School who benefit from a scholarship awarded by the University. Enrolled doctoral students and scholarship recipients assume responsibility for complying with the following provisions. Failure to comply with these requirements may result in exclusion from the course/school and/or termination of the award and recovery of scholarship funds.

The enrolment will be effective by submission of the completed and signed enrolment form. By completing the enrolment form, the winner declares that he/she is aware that:

- during the enrolment in the doctoral School he/she is not allowed to enrol in any of the following University courses in Italy: "Laurea", "Laurea specialistica/magistrale", "Master", "Scuola di specializzazione" or any other doctoral programme;
- s/he has to ask the Council of the School for the permission to carry out activities external to the doctoral programme or to continue work activities since the enrolment into the Doctoral School;
- s/he has not already received a scholarship in Italy in the past for other Doctoral programmes; students who have already benefited from a scholarship for a doctoral programme in Italy cannot apply a second time;
- s/he will not accept any additional scholarship except those offered by national or foreign institutions aimed at integrating the Doctoral student's research abroad;
- in order to benefit from the scholarship s/he must not have a personal income exceeding € 13.638,47 per year in Italy. S/He commits her/himself to communicate promptly a possible exceeding of the limit of income; exceeding the limit of income will result in the loss of the scholarship for that year and implies the duty to return the monthly payments already received;
- s/he commits her/himself to paying back the scholarship received during the year if the student's income exceeds the limit.