BIOMEDICAL AREA

Biomedical school

Ph.D. programmes:
- Pharmacology and Innovative Treatments (International Ph.D.)
- Tuscan Ph.D. in Neuroscience
- Biomedical sciences
- Clinical sciences

INTERNATIONAL PH.D. IN
DRUG RESEARCH AND INNOVATIVE TREATMENTS
Coordinator Prof. Elisabetta Teodori

Administrative office: Department of Neuroscience, Psychology, Drug Research and Child Health (NEUROFARBA)

Partner Institution: Paul Sabatier University, Toulouse, France

Curricula:
1) Pharmacology, Toxicology and Innovative Treatments
2) Pharmaceutical Sciences

No. of Positions: 12
Scholarships: 6
- 5 University of Florence
- 1 University Hospital Meyer

Positions with no scholarship: 6

To the successful candidates without a scholarship, contracts of apprenticeship (“Apprendistato di Alta Formazione e Ricerca”) may be offered, whenever available, according to Article 2, paragraph 11 of the competition call.

The purpose of the apprenticeship in Drug Research and Innovative Treatments is to offer structured high value learning and transferable skills and knowledge applied to drug surveillance, pharmacoconomics, purification and quality control of natural products and drugs.

Evaluation of candidates:
Candidates will be selected by written and oral examination [cf. Article 12, paragraph 1, sub-paragraph a) of Doctoral Regulation of 04 July 2013].
With regards to the written examination the candidates will be asked to discuss a particular theme choosing one of the two texts proposed.

- **Themes for the examinations relating to the curriculum in Pharmacology, Toxicology and Innovative Treatments:**
  The *written examination* will be characterised by the completion of an essay on general pharmacology. The *oral examination* will focus on the discussion of the theme chosen by the candidate, as well as the discussion of any research project (optional), that the candidate may present at the moment of the oral examination.

- **Themes for the examinations relating to the curriculum of the Pharmaceutical Sciences:**
  The *written examination* will be characterised by the completion of an essay on the design and synthesis or molecular modelling or analysis or pharmaceutical technology of pharmacologically active molecules of natural or synthetic origin. The *oral examination* will be centred on the discussion of the theme chosen by the candidate as well as the discussion of any research project (optional), that the candidate may present at the moment of the oral examination.

Foreign language in which the examinations can be done: **English.**

**Documents to be attached to the application form:**
- research project (optional).

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**TUSCAN PH.D. IN NEUROSCIENCES**

*Coordinator Prof. Renato Corradetti*

**Tuscany Region Pegaso Project** – Partner Universities: University of Florence (lead partner), University of Pisa, University of Siena.

**Administrative office:** Department of Neuroscience, Psychology, Medicine and Child Health (NEUROFARBA)

**No. of Positions:** 9

**Scholarships:** 9
- 1 University of Florence
- 1 Ministry of Education “Fondo Giovani” – *Scope number 1: Human health (study and treatment of cancers and degenerative diseases with new approaches based on knowledge of the human genome)*
- 7 Tuscany Region Pegaso Scholarships 2013 – co-financed by the University of Florence

**Evaluation of candidates:**
Candidates will be selected by written and oral examination [cf. Article 12, paragraph 1, sub-paragraph b) of Doctoral Regulation of 04 July 2013].
Presentation of a research project. The *written examination* will be characterised by the completion of an essay on Neuroscience. The *oral examination* will focus on a discussion on the research project presented. Good knowledge of spoken and written English is required.

Foreign language in which the examinations can be done: **English.**

**Documents to be attached to the application form:**
- research project (five pages maximum, in Italian or English).
-
****

PH.D. IN BIOMEDICAL SCIENCES
Coordinator Prof. Persio Dello Sbarba

Administrative office: Department of Biomedical, Experimental and Clinical Sciences

Curricula:
1) Human morphology and morphogenesis
2) Endocrinological, Molecular and Regenerative Biotechnology
3) Physiological and Nutritional Sciences
4) Biochemistry and Applied Biology
5) Experimental and Clinical Oncology
6) Biomedical Sciences of Developmental Age

No. of Positions: 14
Scholarships: 7
- 5 University of Florence
- 1 Ministry of Education (“Fondo Giovani”)– Scope number 1: Human health (study and treatment of cancers and degenerative diseases with new approaches based on human genomics)
- 1 Department of Biology

Positions with no scholarship: 7

To the successful candidates without a scholarship, contracts of Apprenticeship (“Apprendistato in Alta Formazione Ricerca”) may be offered, according to Article 2, paragraph 11 of the competition call.

The purpose of the apprenticeship, in Biomedical Sciences is to offer structured high value learning and transferable skills and knowledge applied to the characterization of organs, tissues, equipment and systems, structural and functional cellular properties, as well as biochemical/molecular mechanisms relevant to the pathogenesis of inflammatory, degenerative and neoplastic diseases. Particular emphasis will be given to the definition of aspects useful for the development of diagnostic criteria and innovative strategies in the context of therapeutic approaches to regenerative medicine.

Evaluation of candidates:
Candidates will be selected by oral examination, evaluation of the curriculum vitae, of any additional qualification document and their research project according to the following scheme [cf. Article 12, paragraph 1, sub-paragraph c) of Doctoral Regulation of 04 July 2013].

Scoring of candidates:

<table>
<thead>
<tr>
<th>parameter</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum vitae, qualification documents and publications (if any)</td>
<td>20/120</td>
</tr>
<tr>
<td>Preparation of the research project</td>
<td>40/120</td>
</tr>
<tr>
<td>Oral examination: discussion of the project and publications (if any)</td>
<td>60/120</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120

Documents to be attached to the application form:
- curriculum vitae;
- any additional qualification documents and publications;
- research project, **written in English** and of maximum 12,000 characters including spaces, which must include the summary, introduction and bibliography. The project must be linked, and **make specific reference, to one or more** of the working themes listed below.
Themes to which the research projects of the candidates must be linked:

<table>
<thead>
<tr>
<th>Curricula</th>
<th>Themes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human morphology and morphogenesis</td>
<td>1) Systematic and topographic anatomy</td>
</tr>
<tr>
<td></td>
<td>2) Applied anatomy: diagnostic imaging and semeiotics</td>
</tr>
<tr>
<td></td>
<td>3) Morpho-functional histology and cytology</td>
</tr>
<tr>
<td></td>
<td>4) Embryology and organogenesis</td>
</tr>
<tr>
<td></td>
<td>5) Histio-chemistry</td>
</tr>
<tr>
<td>Endocrinological, Molecular and Regenerative</td>
<td>1) Genetic aspects of male infertility</td>
</tr>
<tr>
<td>Biotechnology</td>
<td>2) Control mechanisms of human spermatogenesis</td>
</tr>
<tr>
<td></td>
<td>3) Role of oxidative stress in male infertility</td>
</tr>
<tr>
<td></td>
<td>4) DNA fragmentation in human spermatozoa: biochemical mechanisms and clinical meaning and significance</td>
</tr>
<tr>
<td></td>
<td>5) Pathophysiology of fat tissue</td>
</tr>
<tr>
<td>Physiological and Nutritional Sciences</td>
<td>1) Muscle biophysics</td>
</tr>
<tr>
<td></td>
<td>2) Neurophysiology</td>
</tr>
<tr>
<td></td>
<td>3) Pathophysiology of nutrition</td>
</tr>
<tr>
<td></td>
<td>4) Adaptation to muscle activity and sport</td>
</tr>
<tr>
<td>Experimental and Clinical Oncology</td>
<td>1) Mechanisms of cancer onset and progression</td>
</tr>
<tr>
<td></td>
<td>2) Cancer invasion and metastasis</td>
</tr>
<tr>
<td></td>
<td>3) Cancer stem cells: characterization and targeting</td>
</tr>
<tr>
<td></td>
<td>4) Novel strategies for cancer treatment</td>
</tr>
<tr>
<td></td>
<td>5) Improvement of clinical handling of oncologic patients</td>
</tr>
<tr>
<td></td>
<td>6) Innovative approaches to cancer diagnosis and prognosis</td>
</tr>
<tr>
<td>Biomedical Sciences of Developmental Age</td>
<td>1) Clinical biochemistry</td>
</tr>
<tr>
<td></td>
<td>2) Pediatrics</td>
</tr>
<tr>
<td></td>
<td>3) Hygiene and public health</td>
</tr>
<tr>
<td></td>
<td>4) Orthodontics</td>
</tr>
<tr>
<td></td>
<td>5) Preventive medicine</td>
</tr>
<tr>
<td>Biochemistry and Applied Biology</td>
<td>1) Lipid signalling</td>
</tr>
<tr>
<td></td>
<td>2) Protein folding, mis-folding and aggregation</td>
</tr>
<tr>
<td></td>
<td>3) Neuro-degeneration in amyloid deposition diseases</td>
</tr>
<tr>
<td></td>
<td>4) Bio-membranes</td>
</tr>
<tr>
<td></td>
<td>5) Redox homeostasis and cancer</td>
</tr>
</tbody>
</table>

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**PH.D. IN CLINICAL SCIENCES**

*Coordinator Prof. Giacomo Laffi*

**Administrative office:** Department of Experimental and Clinical Medicine

**Curricula:**

1) Clinical and Experimental Medicine
2) Clinical Pathophysiology of Aging and Nursing Sciences
3) Pathology and Clinic of the Locomotor Apparatus and the Calcified Tissues
4) Anaesthetic and Surgical Sciences
5) Psychology and Pain Management

**No. of Positions:** 14

**Scholarships:** 7
- 6 University of Florence
- 1 Federazione Nazionale dei Collegi IPASVI

**Positions with no scholarship:** 7

**Evaluation of candidates:**
Candidates will be selected by written and oral examination [cf. Article 12, paragraph 1, sub-paragraph a) of Doctoral Regulation of 04 July 2013].
Ph.D. research courses for the XXIX cycle

Annex 1

Foreign language in which the examinations can be done: **English.**

****

**SCIENTIFIC AREA**

<table>
<thead>
<tr>
<th>School of Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph.D. programmes:</td>
</tr>
<tr>
<td>• Biology</td>
</tr>
<tr>
<td>• Physics and Astronomy</td>
</tr>
<tr>
<td>• International Doctorate in Atomic and Molecular Photonics</td>
</tr>
<tr>
<td>• International Doctorate in Structural Biology</td>
</tr>
<tr>
<td>• Mathematics, Computer Science, Statistics</td>
</tr>
<tr>
<td>• Chemical Sciences</td>
</tr>
<tr>
<td>• Earth Sciences</td>
</tr>
</tbody>
</table>

**PH.D. IN BIOLOGY**

Coordinator Prof. Stefano Turillazzi

Administrative office: Department of Biology (BIO)

Curricula:
1) *Ethology and Ecology*
2) *Anthropology*
3) *Plant Biology*
4) *Genetics and Microbiology*

No. of Positions: 8
Scholarships: 4
- 3 University of Florence
- 1 Co-financed between the University of Florence and Department of Biology

Positions with no scholarship: 4

Evaluation of candidates:
Candidates will be selected by written and oral examination [cf. Article 12, paragraph 1, sub-paragraph a) of Doctoral Regulation of 04 July 2013].

Written examination: consists of a summary and critical analysis (not more than 2 pages) of a printed scientific publication, in English, which each candidate can choose from among three proposals for each Ph.D. curriculum.

Oral examination: discussion of the written examination and in-depth analysis of the themes expressed in the key words of the publication chosen and the research lines envisaged in the curriculum chosen by the candidate.

The examinations may also be taken in **English.**

Documents to be attached to the application form:
- curriculum vitae;
- list of exams taken with the relative grades;
- title of the thesis.

****

PH.D. IN PHYSICS AND ASTRONOMY
Coordinator Prof. Roberto Livi

Administrative office: Department of Physics and Astronomy

Curricula:
1) Physics
2) Astronomy

No. of Positions: 13
Scholarships: 9
- 4 University of Florence
- 2 National Institute for Nuclear Physics (INFN)
- 1 National Institute for Astrophysics (INAF). The scholarship will be aimed at studies of observational astrophysics and the development of technologies for the E-ELT telescope.
- 1 National Research Council – National Institute of Optics (CNR-INO)
- 1 Ministry of Education (“Fondo Giovani”) – Scope number 8: ICT and electronic components

Positions with no scholarship: 4

Evaluation of candidates:
Candidates will be selected by written and oral examination with evaluation of their curriculum and any additional qualification documents [cf. Article 12, paragraph 1, sub-paragraph b) of Doctoral Regulation of 04 July 2013].

The examinations may be taken in the following foreign language: English.

Documents to be attached to the application form:
- curriculum vitae;
- list of exams taken with the relative grades;
- qualification documents and publications;
- title of the Master thesis (or equivalent degree).

****

INTERNATIONAL DOCTORATE IN ATOMIC AND MOLECULAR PHOTONICS
Coordinator Prof. Francesco Saverio Pavone

Administrative office: Department of Physics and Astronomy
Partner Institution: Universidad Complutense de Madrid, Imperial College of London

No. of Positions: 10
Scholarships: 5
- 1 University of Florence
- 3 European Laboratory for non-linear spectroscopy (LENS)
- 1 European Laboratory for non-linear spectroscopy (LENS) – financed by the European project ERC-PHOTBOTS n. 291349

Positions with no scholarship: 5
of which 2 are reserved to citizens of foreign countries to young scholars supported by specific international mobility programmes that are qualified for admission to the Ph.D. course in foreign universities.

**Evaluation of candidates:**
Candidates will be selected by oral examination, evaluation of their curriculum, of any other qualification document and of their research project, through a score system as specified below [cf. Article 12, paragraph 1, sub-paragraph c) of Doctoral Regulation of 04 July 2013].

In the case that it is established by the Academic Board that it is not possible for the foreign candidate or the Italian resident abroad to undertake in person the oral examination through the LENS on the day specified in the notice, the Academic Board may decide to proceed through an electronic oral examination to be carried out on the same day.

The oral examination will be carried out in **English**.

**Scoring of candidates:**

<table>
<thead>
<tr>
<th>parameter</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral examination</td>
<td>60/120</td>
</tr>
<tr>
<td>Curriculum vitae, qualification documents and publications (if any)</td>
<td>20/120</td>
</tr>
<tr>
<td>Research project</td>
<td>40/120</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120

**Documents to be attached to the application form:**
- curriculum vitae;
- any additional qualification document and publications;
- research project of 2 A4 pages.

The qualification documents and the research project must be written in English.

****

**INTERNATIONAL DOCTORATE IN STRUCTURAL BIOLOGY**

*Coordinator Prof. Claudio Luchinat*

**Administrative office:** Magnetic Resonance Center (CERM)

**No. of Positions:** 8

**Scholarships:** 4
- 1 University of Florence
- 3 Interuniversity Consortium for Magnetic Resonance of MetalloProteins (CIRMMP)

**Positions with no scholarship:** 4

To the successful candidates without a scholarship, contracts of apprenticeship (“Apprendistato di Alta Formazione e Ricerca”) may be offered, whenever available, according to Article 2, paragraph 11 of the call.

**Evaluation of candidates:**
Candidates will be selected by oral examination, evaluation of their curriculum, of any other qualification document and of their research project, through a score system as specified below [cf. Article 12, paragraph 1, sub-paragraph c) of Doctoral Regulation of 04 July 2013].

The evaluation will be held in **English**.

**Scoring of candidates:**
<table>
<thead>
<tr>
<th>parameter</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral examination</td>
<td>60/120</td>
</tr>
<tr>
<td>Curriculum vitae, any other qualification document, research project</td>
<td>60/120</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120

Documents to be attached to the application form:
- curriculum vitae;
- any additional qualification document and publications;
- research project.

All the documentation requested must be written in **English** (on pain of exclusion).

****

**PH.D. in Mathematics, Computer Science, Statistics**

*Coordinator Prof. Gentili Graziano*

**Administrative office:** Department of Mathematics and Computer Science “U. Dini” (DIMAI)

**Partner Institution:** University of Perugia, Istituto Nazionale di Alta Matematica“F. Severi”

**Curricula:**
1) Mathematics  
2) Computer Science  
3) Statistics

**No. of Positions:** 14  
**Scholarships:** 11  
- 6 University of Florence  
- 3 University of Perugia  
- 2 Istituto Nazionale di Alta Matematica“F. Severi”

**Positions with no scholarship:** 3

**Admission examination:**
A written and oral examination, including the evaluation of the curriculum, of possible qualification documents and of the research project [*cf. Article 12, paragraph 1, sub-paragraph b) of Rectoral Decree No. 670 of 04 July 2013*].

**Documents to be attached to the application form:**
- curriculum vitae;
- any additional qualification document;
- research project.

The research project, of maximum 5,000 characters, will be discussed and evaluated during the oral examination.

**Foreign language for the written examination:** **English.**

****
PH.D. IN CHEMICAL SCIENCES  
Coordinator Prof. Andrea Goti

Administrative office: Department of Chemistry “Ugo Schiff”

Curricula:  
1) Chemistry  
2) Science for the Conservation of Cultural Heritage

No. of Positions: 28  
Scholarships: 14

- 5 University of Florence  
- 1 Ministry of Education (“Fondo Giovani”) – Scope number 2: Trial of the pharmaceutical industry particularly through the fine chemical of natural products for new diagnostic applications and novel active substances.  
- 1 Interuniversity consortium for the Development of Large Interface Systems (CSGI) – Theme of the scholarship: “Characterisation and Optimisation of innovative dispersants against carbon particles in oil-soluble lubricating means”.  
- 1 Interuniversity consortium for the Development of Large Interface Systems (CSGI) – Theme of the scholarship: “Preparation, characterisation and stability of Nanostructured Polymer Films for Advanced Applications”.  
- 1 Department of Chemistry “Ugo Schiff” – Theme of the scholarship: “Nanometric and/or molecular magnetic materials”  
- 1 European Laboratory for Spectroscopy (LENS) – Theme of the scholarship: “Innovative synthesis of amino and imino-sugars used to cover biomaterials (Photbots Project)”.  
- 1 Vinci Programme (“Bando Vinci”, grant by Italo-French University) – Theme of the scholarship: “Development of affinity biosensors based on a new aptameric receptor for the molecular diagnosis of Alzheimer’s disease” – Requisites necessary for the awarding of the scholarship: knowledge of French and signing of an agreement for joint supervision between the University of Florence and the University of Grenoble I “J.Fourier” for the successful candidate.

Positions with no scholarship: 14

To the successful candidates without a scholarship, contracts of apprenticeship (“Apprendistato di Alta Formazione e Ricerca”) may be offered, whenever available, according to Article 2, paragraph 11 of the competition call.

Evaluation of candidates:  
Candidates will be selected by oral examination, evaluation of their curriculum, of qualification documents and of their research project through a score system as specified below [cf. Article 12, paragraph 1, subparagraph c) of Doctoral Regulation of 04 July 2013].

Scoring of candidates:

<table>
<thead>
<tr>
<th>parameter</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum Vitae, student career and qualification documents</td>
<td>60/120</td>
</tr>
<tr>
<td>Oral examination: discussion of the research project and the qualification documents presented</td>
<td>60/120</td>
</tr>
</tbody>
</table>
All candidates who obtain at least 40 points in the evaluation of the curriculum vitae and the qualification documents will be admitted to the oral examination. All candidates who obtain at least 40 points in the oral examination will be placed in the final ranking for admission to the course.

Documents to be attached to the application form:
- curriculum vitae;
- list of exams taken with the relative grades;
- any additional qualification document and scientific publications;
- research project written in English in not more than 12,000 characters including spaces, comprising abstract, introduction and references;
- title of the Master thesis.

The oral examination may be done in English. Otherwise, the oral examination will include an assessment of English language proficiency.

For the awarding of the Bando Vinci (Vinci Programme) scholarship, knowledge of the French language is mandatory and will be ascertained in the oral examination.

****

PH.D. IN EARTH SCIENCES
Coordinator Prof. Lorenzo Rook

Tuscany Region Pegaso Project– Partner Universities: University of Florence (lead partner), University of Pisa, University of Siena.

Administrative office: Department of Earth Sciences (DST)

No. of Positions: 9
Scholarships: 9
- 2 University of Florence
- 7 Tuscany Region Pegaso Scholarship 2013 – co-financed by the University of Florence

Evaluation of candidates:
Candidates will be selected by oral examination, evaluation of their curriculum, of any other qualification document and of their research project through a score system as specified below [cf. Article 12, paragraph 1, sub-paragraph c) of Doctoral Regulation of 04 July 2013].

Scoring of candidates:

<table>
<thead>
<tr>
<th>parameter</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum Vitae, student career and preparation of the project</td>
<td>50/120</td>
</tr>
<tr>
<td>Oral examination: discussion of the project and the qualification documents presented</td>
<td>70/120</td>
</tr>
</tbody>
</table>

All candidates who obtain at least 35 points in the evaluation of their CV, their qualification documents and their preparation of the project will be allowed to sit for the oral examination. The oral examination will be passed upon obtaining at least 45 points.

Documents to be attached to the application form:
- curriculum vitae;
- list of exams taken with the relative grades;
- any additional qualification document and scientific publications;
- research project within the themes of the Ph.D., with a maximum length of 12,000 characters including spaces, comprising abstract, introduction and references;

The research project may be presented in English.
The oral examination may be taken in English.

A good knowledge of spoken and written English is required and this will be assessed during the oral examination.

****

SOCIAL SCIENCES AREA

Ph.D. programmes:
- Economics
- Legal sciences
- Historical-social sciences

PH.D. IN ECONOMICS
Coordinator Prof. Donato Romano

Administrative office: Department of Economics (DISEI)

Curricula:
1) Development Economics
2) Economics and Management of Local Development

No. of Positions: 8
Scholarships: 4 University of Florence
Positions with no scholarship: 4

Evaluation of candidates:
Candidates will be selected by written examination, oral examination, evaluation of their curriculum, of any their certification and of their research statement [cf. Article 12, paragraph 1, sub-paragraph b) of Doctoral Regulation of 04 July 2013].

<table>
<thead>
<tr>
<th>Curriculum</th>
<th>Written examination themes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development Economics</td>
<td>poverty, inequality, growth, development micro-economics, international economics and development macroeconomics. (more detailed information can be found on the site <a href="http://www.disei.unifi.it">http://www.disei.unifi.it</a> or <a href="http://www.dse.unifi.it/CMpro-v-p-138.html">http://www.dse.unifi.it/CMpro-v-p-138.html</a>)</td>
</tr>
<tr>
<td>Economics and Management of Local Development Management</td>
<td>local development, enterprise systems, internationalisation of enterprise systems, innovation, entrepreneurship. (more detailed information can be found on the site <a href="http://www.disei.unifi.it">http://www.disei.unifi.it</a> or <a href="http://www.dse.unifi.it/CMpro-v-p-138.html">http://www.dse.unifi.it/CMpro-v-p-138.html</a>)</td>
</tr>
</tbody>
</table>
The oral examination will consist in the evaluation of the candidate’s curriculum vitae, discussion of his/her papers/publications (if any) as well as his/her research statement and an assessment of the candidate’s motivations.

The admission examination may be held in English.

Documents to be attached to the application form:
- curriculum vitae, including detailed information on the candidate’s academic history and professional experience as well as any other information the candidate deems relevant for the selection;
- qualification certifications;
- a research statement of no more than three pages describing a research project proposal to be developed during the Ph.D. programme including the research project objectives, justification, background, methodology and (if suitable) expected results.

The research statement is meant to highlight the candidate ability to propose a research project: should the candidate be selected, the research statement topic may or may not be his/her actual research project, depending on decisions to be made later on in the Ph.D. programme.

****

PH.D. IN LEGAL SCIENCES
Coordinator Prof. Vittoria Barsotti

Administrative office: Department of Legal Sciences (DSG)

Curricula:
1) Comparative Law
2) Public Law – Town Planning Law and Environmental Law
3) Criminal Law and Criminal Procedure
4) Private Law
5) International and European Union law
6) Theory and History of Law – Theory and Story of Human Rights (International) – Authorities in agreement: Federal University of Paraíba (Brazil), University of Minho (Portugal), University of Paraná (Curitiba, Brazil).

No. of Positions: 14
Scholarships: 7 University of Florence
Positions with no scholarship: 7

Evaluation of candidates:
Candidates will be selected by oral examination, evaluation of their curriculum, of their other qualification documents and of their research project through a score system as specified below [cf. Article 12, paragraph 1, sub-paragraph c) of Doctoral Regulation of 04 July 2013].

Scoring of candidates:

<table>
<thead>
<tr>
<th>parameter</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral examination, including the assessment of the knowledge of the foreign language, chosen from English, French, German and Spanish</td>
<td>60/120</td>
</tr>
<tr>
<td>Research project and any additional qualification documents</td>
<td>40/120</td>
</tr>
<tr>
<td>Curriculum vitae</td>
<td>20/120</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120
Documents to be attached to the application form:
- curriculum vitae;
- any additional qualification document and scientific publications;
- research project, of at most 5 pages, indicating with sufficient precision the subject, the objectives and the methodology, which will be discussed during the oral examination.

****

PH.D. IN HISTORICAL-SOCIAL SCIENCES
Coordinator Prof. Marco Bontempi

Administrative office: Department of Political and Social Sciences (DPSS)

Curricula:
1) History of the Twentieth century: Theories, Institutions and International Relations
2) Sociology and Social Research

No. of Positions: 10
Scholarships: 5 University of Florence
Positions with no scholarship: 5

Evaluation of candidates:
Candidates will be selected by oral examination, evaluation of their curriculum, of their other qualification documents and of their research project through a score system as specified below [cf. Article 12, paragraph 1, sub-paragraph c) of Doctoral Regulation of 04 July 2013]. The oral examination may also be taken in English and French, besides Italian.

Scoring of candidates:

<table>
<thead>
<tr>
<th>parameter</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral examination</td>
<td>60/120</td>
</tr>
<tr>
<td>Research project</td>
<td>40/120</td>
</tr>
<tr>
<td>Curriculum vitae, publications and other qualification documents (if any)</td>
<td>20/120</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120

Documents to be attached to the application form:
- curriculum vitae;
- any additional qualification document and scientific publications;
- research project (not more than 12,000 characters).
TECHNOLOGICAL AREA

<table>
<thead>
<tr>
<th>School of Agriculture</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ph.D. programmes:</strong></td>
</tr>
<tr>
<td>• Sustainable Management of Agricultural Resources, Forestry and Food</td>
</tr>
<tr>
<td>• Agricultural and Environmental Sciences</td>
</tr>
</tbody>
</table>

**Ph.D. in Sustainable Management of Agricultural Resources, Forestry and Food**

Coordinator Prof. Leonardo Casini

**Administrative office:** Department of Agricultural, Food and Forestry Systems (GESAAF)

**Curricula:**
- 1) Wine Economics and Rural Development (EVSR)
- 2) Economics, Forestry Planning and Wood Sciences (EPFSL)
- 3) Agro-Forest Engineering (IAFET)
- 4) Science and Food Technology (STA)

**No. of Positions:** 8

**Scholarships:** 4
- 2 University of Florence
- 1 Ministry of Education (“Fondo Giovani”) – Scope number 5 – Advanced Materials (particularly ceramics) for structural applications
- 1 University Centre for the Strategic Development of the Wine Sector (UNICESV)

**Positions with no scholarship:** 4

of which 2 are reserved to citizens of foreign countries to young scholars supported by specific international mobility programmes, which do possess the qualification from a foreign university needed for the application to the Ph.D. course.

To the successful candidates without a scholarship, contracts of apprenticeship (“Apprendistato di Alta Formazione e Ricerca”) may be offered, whenever available, according to Article 2, paragraph 11 of the call.

**Evaluation of candidates:**
Candidates will be selected by written examination and oral examination (cf. Article 12, paragraph 1, subparagraph a) of Doctoral Regulation of 04 July 2013).

English language examination intended to assess the knowledge of a foreign language.

****
PH.D. IN AGRICULTURAL AND ENVIRONMENTAL SCIENCES
Coordinator Prof. Simone Orlandini

Administrative office: Department of Agrifood Production and Environmental Sciences (DISPAA)

No. of Positions: 12
Scholarships: 6
- 5 University of Florence

Positions with no scholarship: 6

To the successful candidates without a scholarship, contracts of apprenticeship (“Apprendistato di Alta Formazione e Ricerca”) may be offered, whenever available, according to Article 2, paragraph 11 of the call.

Evaluation of candidates:
Candidates will be selected by written examination and oral examination [cf. Article 12, paragraph 1, subparagraph a) of Doctoral Regulation of 04 July 2013].

English language examination intended to assess the knowledge of a foreign language.

Themes of the examination: general topics relating to the educational objectives of the Ph.D.

The admission examination can be taken in the following foreign language: English.

<table>
<thead>
<tr>
<th>Architecture School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph.D. programmes:</td>
</tr>
<tr>
<td>• Architecture</td>
</tr>
</tbody>
</table>

PH.D. IN ARCHITECTURE
Coordinator Prof. Antonio D’Auria

Administrative Office: Department of Architecture (DiDA)

Curricula:
1) Architectural and Urban Design
2) Architectural Technologies
3) Design
4) History of Architecture and Cities
5) Survey and Representation of Architecture and Environment
6) Landscape Architecture
7) Urban and Regional Planning,
8) Structures and Conservation of Architecture and Cultural Heritage
No. Of Positions: 20
Scholarships: 10
- 8 University of Florence
- 1 co-financed by the University of Florence – Department of Architecture
- 1 Ministry of Education (“Fondo Giovani”) – Scope number 9 – Energy Saving and distributed Microgeneration

Positions with no scholarship: 10

Evaluation of candidates:
Candidates will be selected by written examination and oral examination [cf. Article 12, paragraph 1, sub-paragraph a) of Doctoral Regulation of 04 July 2013].
The written examination will focus on a topic related to the content of different scientific-disciplinary Ph.D. curricula.
The oral examination will focus on the discussion of the written examination, the curriculum vitae of the candidate and on an examination of a European Union language (preferably English). The curriculum vitae will be used in an informative manner and will not contribute to the formation of the score.

Documents to be attached to the application form:
- curriculum vitae, relating to the training and research activities carried out by the candidate, of maximum two pages, as well as the indication of the pre-chosen foreign language for the examination.
- curriculum vitae, related to training activities and research carried out by the candidate, of maximum two folders, as well as an indication of the foreign language chosen for verification.

Examinations for foreign candidates will be held in English, it is also required to acquire a basic level of Italian within the first year of the Ph.D. studies.

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<table>
<thead>
<tr>
<th>Engineering School</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director of School Prof. Francesco Martelli</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ph.D. programmes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Information Engineering</td>
</tr>
<tr>
<td>• Industrial Engineering</td>
</tr>
<tr>
<td>• International Doctorate in Civil and Environmental Engineering</td>
</tr>
</tbody>
</table>

PH.D. in INFORMATION ENGINEERING
Coordinator Prof. Luigi Chisci

Administrative office: Department of Information Engineering (DINFO)

Curricula:
1) Control systems, Optimisation and Electrical Systems
2) Electronics and Electromagnetism
3) Informatics
4) Telecommunications
5) Non-linear Dynamics and Complex Systems
6) Telematics and Information Society

No. of Positions: 18
Scholarships: 9
- 5 University of Florence
Ph.D. research courses for the XXIX cycle

- 2 Ministry of Education (“Fondo Giovani”) – Scope number 6 – Innovative broadband telecommunication systems even with the use of satellites for different users on safety, prevention and intervention in the case of natural disasters
- 1 Ministry of Education (“Fondo Giovani”) – Scope number 3 – New applications of the biomedical industry
- 1 Deep Blue s.r.l. – Theme of the scholarship: the optimal workload in the design: an approach for the validation of innovative concepts in “safety critical” domains

Positions with no scholarship: 9
of which 2 reserved to citizens of foreign countries to young scholars supported by specific international mobility programmes that are qualified for admission to the Ph.D. course in foreign universities.

To the successful candidates without a scholarship, contracts of apprenticeship (“Apprendistato di Alta Formazione e Ricerca”) may be offered, whenever available, according to Article 2, paragraph 11 of the call.

Evaluation of candidates:
Candidates will be selected by oral examination, evaluation of their curriculum, of their other qualification documents and of their research project, [cf. Article 12, paragraph 1, sub-paragraph c) of Doctoral Regulation of 04 July 2013].

Scoring of candidates:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum vitae, qualification document and publications (if any)</td>
<td>40/120</td>
</tr>
<tr>
<td>Preparation of the research project</td>
<td>40/120</td>
</tr>
<tr>
<td>Discussion of the project and publications (if any)</td>
<td>40/120</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120

Documents to be attached to the application form:
- curriculum vitae including a list of publications;
- qualification documents;
- research project.

During the oral examination the candidate must submit the original documents and the project countersigned by the candidate himself/herself.

The project must be in .pdf format, written in Italian or English in no more than 12,000 characters including spacing, abstract, introduction and bibliography (under penalty of exclusion from the evaluation).

The project must describe a possible research activity to carry out in the three years of the Ph.D.

This project must include the specific reference to the curriculum and the chosen field of study, as specified below.

<table>
<thead>
<tr>
<th>Curriculum</th>
<th>Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Systems, Optimization and Electrical Systems</td>
<td>AREA 1 – AUTOMATIC: concerns the analysis, modelling and synthesis of automation systems (control, supervision and monitoring) at high-performance for processes only partially known and with constraints such as industrial applications, robotics, bio-engineering, aerospace, electrical systems, etc.</td>
</tr>
<tr>
<td></td>
<td>AREA 2 – OPTIMISATION: concerns the study of Operations Research models and their applications, as well as the development and the analysis of efficient algorithms of optimisation for the resolution of complex problems. The optimisation applications are found both in the fields of automation systems as well as in the productive world, from logistics to transportation, to the supply-chain, in the networks of electrical energy management (“smart grids”) even in stochastic contexts and multiple decision-makers (game theory).</td>
</tr>
<tr>
<td></td>
<td>AREA 3 – ELECTRICAL SYSTEMS: concerns the critical and comparative analysis of the techniques of control of the electrical drives with the development of innovative algorithms, the automation of power systems, with particular reference to the “power quality” in the distribution networks, to the “smart-metering” and fault diagnosis in the electrical systems.</td>
</tr>
<tr>
<td><strong>Electronics and Electromagnetism</strong></td>
<td><strong>Informatics</strong></td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>AREA 1 – ELECTRONIC HIGH-FREQUENCY: concerns the analysis and design of devices and electronic systems at high frequency (from radio frequency to millimetre waves). AREA 2 – DIGITAL ELECTRONIC SYSTEMS: concerns the analysis and design of electronic systems designed on advanced digital components, with application fields from biomedical to radar. AREA 3 – ELECTROMAGNETISM: concerns the use and development of numerical techniques for the analysis and design of radiant systems and passive devices at high frequency, from some GHz up to optical frequencies.</td>
<td>AREA 1 – METHODS AND TECHNOLOGIES OF SOFTWARE: concerns methods of design, examining and evaluation of complex SW systems, with further details on formal methods and advanced SW architectures. AREA 2 – PATTERN RECOGNITION AND COMPUTER VISION: concerns multimedia processing, the classification and media research from databases and the Internet, solutions for the human-machine interaction, smart environments. AREA 3 – ARTIFICIAL INTELLIGENCE AND BIOINFORMATICS: is directed to the problems of machine learning and bioinformatics.</td>
</tr>
</tbody>
</table>
**PH.D. IN INDUSTRIAL ENGINEERING**  
*Coordinator Prof. Maurizio De Lucia*

**Administrative office:** Department of Industrial Engineering Florence (DIEF)

**Curricula:**
1. Energy and Innovative Industrial & Environmental Technologies
2. Design and development of Industrial Products and Processes
3. Industrial Engineering and Reliability
4. Science and Engineering of Materials

**No. of Positions:** 14  
**Scholarships:** 7  
- 5 University of Florence  
- 1 Ministry of Education ("Fondo Giovani") – Scope number 9: energy-saving and distributed microgeneration  
- 1 Ministry of Education (“Fondo Giovani”) – Scope number 4: shipbuilding, aircraft and helicopters with high ability to penetrate foreign markets

**Positions with no scholarship:** 7

To the successful candidates without a scholarship, contracts of apprenticeship (“Apprendistato di Alta Formazione e Ricerca”) may be offered, whenever available, according to Article 2, paragraph 11 of the call.

**Evaluation of candidates:**
Candidates will be selected by oral examination, evaluation of their curriculum, of their other academic or professional qualifications and of their research project through a score system as specified below [cf. Article 12, paragraph 1, sub-paragraph c) of Doctoral Regulation of 04 July 2013].

**Scoring of candidates:**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>evaluation of the curriculum vitae, evaluation of other academic or professional qualifications and publications (if any)</td>
<td>30/120</td>
</tr>
<tr>
<td>Evaluation of the research project</td>
<td>35/120</td>
</tr>
<tr>
<td>Oral examination: discussion of the project and publications (if any)</td>
<td>55/120</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120

**Documents to be attached to the application form:**
- curriculum vitae;  
- any additional qualification documents and scientific publications;  
- research project.

The research project must be written in Italian or English in no more than 12 000 characters including spacing, abstract, introduction and bibliography (under penalty of exclusion from the evaluation). The project must relate, and should make specific reference, to one of the working themes listed below:

1. Analysis of modular systems for power plants, or of auxiliary circuits of plants, for the preliminary design of facilities and the thermo-fluid-dynamic study of the components, with the aim of streamlining the evaluation processes of and components optimisation.  
2. Numerical modelling and/or experimental of the cooling air circuits of auxiliary components in gas turbines; related aeronautical applications, with particular attention to the aerodynamic loss of disks or rotating gears.
3. The use of renewable energy is becoming increasingly important: in the optimisation of small-scale the rule of small ORC systems became significant for new smart communities. The development of such systems involves issues rather new and consequently can require a complex approach where economic considerations need to find technical feedback.

4. Development of numerical and experimental approaches for the study of volumetric machines.

5. Analysis of the technological barriers to the development of electric mobility.

6. Development and prototyping of systems that implement and control automotive applications.

7. The project should be based on the study of innovative molecular or polymeric magnetic nanophase materials with the aim to explore systems where bulk and quantum properties could coexist. A relevant feature to be considered is the presence of an high magnetic anisotropy as starting point to the generation of hysteresis in the magnetization of molecular systems. Advanced experimental methods to support the development of energy systems and their components.

8. Experimental analysis of problems of heat exchange in the interaction between the combustor and the turbine in gas turbines.


10. Concentrating solar systems for the production of thermal energy.

11. Analysis of the motorcyclists’ riding behaviour in natural conditions.


13. Luxury Supply Chain performance improvement as an enhancement for the Made in Italy production System.

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INTERNATIONAL DOCTORATE IN CIVIL AND ENVIRONMENTAL ENGINEERING

Coordinator Prof. Fabio Castelli

Pegaso Project Tuscany Region – Partner Institutions: University of Florence (lead partner), University of Pisa, National Research Council – Institute of Science and Information Technology “A. Faedo” (ISTI-CNR).

University in agreement: Technical University of Braunschweig (Germany)

Administrative office: Department of Civil and Environmental Engineering (DICEA)

For further details on the joint degree with the TU of Braunschweig and the description of the curricula and the co-financing grants view the Ph.D. programme website: [http://www.unifi.it/ddicea/mdswitch.html](http://www.unifi.it/ddicea/mdswitch.html)

Curricula:

1) Solid, Fluid and Materials Mechanics
2) Construction Design, Verification and Control
3) Environment, Resources and Security

No. of Positions: 10

Scholarships: 10
- 2 University of Florence
- 1 Ministry of Education (“Fondo Giovani”) – Scope number 5 – Advanced materials (in particular ceramics) for structural applications
- 7 Tuscany Region Pegaso Scholarships 2013 – co-financed by the University of Florence, the University of Pisa and the Department of Civil and Environmental Engineering.

Evaluation of candidates:
oral examination, evaluation of the curriculum, of any other qualification document and of the research project [cf. Article 12, paragraph 1, sub-paragraph c) of Regulation, Doctoral Regulation of 04 July 2013] (for applicants from abroad examination in video conference with visual identification is allowed).
Scoring of candidates:

<table>
<thead>
<tr>
<th>parameter</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral examination</td>
<td>70/120</td>
</tr>
<tr>
<td>Curriculum vitae, qualification documents and publications</td>
<td>20/120</td>
</tr>
<tr>
<td>Research project</td>
<td>30/120</td>
</tr>
</tbody>
</table>

Eligibility is achieved with a minimum score of 80/120

Documents to be attached to the application form:
- curriculum vitae;
- any additional qualification documents and scientific publications;
- research project, within the theme of the Ph.D., which must be written in English up to a maximum of three pages and will refer to at least one of curricula.

A good knowledge of spoken and written English is required.

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HUMANISTIC AREA

School of Humanities

Ph.D. programmes:
- Philology, Italian Literature, Linguistics
- Comparative Languages, Literature and Culture
- Science Education
- History of Art and the Performing Arts
- Historical studies

PH.D. IN PHILOLOGY, ITALIAN LITERATURE, LINGUISTICS

Coordinator Prof. Adele Dei

Administrative office: Department of Humanities (DILEF)

Curricula:
1) Italian Studies (International) – Partner Institutions: Rheinische Friedrich-Wilhelms University, Bonn, Germany; University of Paris IV Sorbonne, France
2) Linguistics
3) History, Tradition and Criticism of Medieval and Renaissance texts

No. of Positions: 8
Scholarships: 4 University of Florence
Positions with no scholarship: 4
Evaluation of candidates:
Candidates will be selected by written examination, oral examination, evaluation of their curriculum vitae, of their Bachelor’s thesis and the Master’s thesis, of their other qualification documents and of their research project [cf. Article 12, paragraph 1, sub-paragraph b) of Doctoral Regulation of 04 July 2013].

Documents to be attached to the application form:
- a copy of Master thesis (or equivalent degree);
- curriculum vitae;
- list of exams taken with the relative grades;
- any scientific qualification document which the candidate considers useful to discuss during the oral examination;
- research project which the candidate intends to carry out during the Ph.D.;
- title of the thesis.

Themes of the written examination:
consists in carrying out a detailed study on a topic chosen from among those proposed by the Commission, which will focus:
- on the interpretation and the commentary to a text or illustration of a fundamental theme of Italian Literature from its origins to the contemporary (Italian Studies);
- on a theme featuring one of the following areas: historical linguistics, theoretical linguistics, corpus linguistics, Italian linguistics and communication theory (Linguistics);
- on the illustration of themes, texts or palaeographic Medieval or Renaissance documents (History, Tradition and Criticism of Medieval and Renaissance texts)

The oral examination consists of a discussion of the research project proposed by the candidate, the scientific qualification documents presented and the assessment of the knowledge of a foreign language or of Latin (obligatory for the curriculum in History, Tradition and Criticism of Medieval and Renaissance texts)

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PH.D. IN COMPARATIVE LANGUAGES, LITERATURE AND CULTURE
Coordinator Prof. Lucia Bruschi Borghese

Administrative Office: Department of Languages, Literature and Intercultural Studies

Curricula:
1) German Studies Florence-Bonn (International) – Partner Institutions: Rheinische Friedrich-Wilhelms University, Bonn, Germany; University of Paris IV Sorbonne, France
2) Founding Myths of Europe in the Arts and Literature (International) – Partner Institutions: Rheinische Friedrich-Wilhelms University, Bonn, Germany; University of Paris IV, Sorbonne, France
3) Language, Literature and Philology: Intercultural perspectives
4) Linguistics and Oriental Studies

No. of Positions: 8
Scholarships: 4 University of Florence
Positions with no scholarship: 4

Evaluation of candidates:
Candidates will be selected by written examination, oral examination, evaluation of their curriculum vitae, of their Bachelor’s thesis and the Master’s thesis, of their other qualification documents and of their research project [cf. Article 12, paragraph 1, sub-paragraph b) of Doctoral Regulation of 04 July 2013].
The **written examination** will consist in the analysis of a literary text or the discussion of a subject related to the themes of the four curricula. There will be three texts proposed from which the candidate must choose.

The admission examination may be taken in one of the following foreign languages: *German, French, English, Spanish*.

Each candidate shall demonstrate competence, besides from the language in the area of their specialisation, in one or two foreign languages to be chosen between German, French, English, Spanish.

**Documents to be attached to the application form:**
- copy of the Master’s or Specialist thesis or old system and copy of the Bachelor’s thesis (if available), accompanied by an abstract of maximum 200 words;
- curriculum vitae;
- any additional qualification document and publications;
- research project, of maximum five pages, defining the discipline in which they intend to specialise and written in Italian or in one of the foreign languages: German, French, English and Spanish. The project will be discussed during the oral examination.

<table>
<thead>
<tr>
<th>Curriculum</th>
<th>Themes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>German Studies Florence-Bonn (International)</strong>&lt;br&gt;<strong>Partner Institution</strong>: Rheinische Friedrich-Wilhelms University, (Bonn)</td>
<td>1) Classical-romantic culture and its reception 2) 19th century German literature between Realism and Nihilism 3) Themes and currents of 20th century German literature 4) Italo-German studies 5) Theory and history of translation and publishing techniques 6) Gender studies 7) Historico-literary anthropology 8) Aesthetics and poetics of modernity 9) Theory and science of literature 10) Production and reception of literature 11) Literature and arts</td>
</tr>
<tr>
<td><strong>Founding Myths of Europe in the Arts and Literature (International)</strong>&lt;br&gt;<strong>Partner Institution</strong>: University of Sorbonne Paris IV, Rheinische Friedrich-Wilhelms University, (Bonn)</td>
<td>1) Legends, myths, folklore in the Middle Ages 2) The “Courtesy” in the Middle Ages 3) Modernity and new myths 4) Classical antiquity, Italian Renaissance and European culture 5) Mythical figures of European culture 6) Studies on 18th century Europe 7) Literature and arts 8) Theory and history of translation and publishing techniques 9) Production and reception of literature 10) Aesthetics and poetics of modernity 11) Classical-romantic culture and its reception</td>
</tr>
<tr>
<td><strong>Language, Literature and Philology: Intercultural Perspectives</strong></td>
<td><strong>Areas of research</strong>: Anglo-American, Arabic, Hebrew, Estonian, Germanic Philology, Romance Philology, Finnish, English, Hispanic-American, Italian Literature, Comparative Literature, Portuguese, Romanian, Russian, Scandinavian, Spanish, Turkish, Hungarian. Topic of the XXIX cycle on which the themes of the written examination will focus: “The weight of history: between languages and literature”.</td>
</tr>
</tbody>
</table>
PH.D. IN EDUCATION SCIENCES  
Coordinator Prof. Simonetta Ulivieri

Administrative Office: Department of Education and Psychology

Curricula:
1) Research Methodologies for Socio-Educational services
2) Quality of Knowledge and Knowledge of the Differences
3) Theory and History of Educational Processes
4) Sciences of Psychological Development and Social Education, of Organisation and Labour

No. of Positions: 8
Scholarships: 4 University of Florence
Positions with no scholarship: 4
of which 1 is reserved to citizens of foreign countries supported by a scholarship by a foreign State or by specific international mobility programmes qualified for admission Ph.D. course in foreign universities.

Evaluation of candidates:
written examination, oral examination with evaluation of the curriculum, of any other qualification document and of the research project [cf. Article 12, paragraph 1, sub-paragraph b) of Doctoral Regulation of 04 July 2013].

The oral examination will also affect the language assessment in one of the following foreign languages chosen by the candidate: English, French, German, Spanish.

Documents to be attached to the application form:
- curriculum vitae;
- any additional educational and professional qualification document;
- research project of maximum 5 pages.

PH.D. IN HISTORY OF ART AND PERFORMING ARTS  
Coordinator Prof. Maria Grazia Messina

Tuscany Region Pegaso Project – Partner Universities: University of Florence (lead partner), University of Pisa, University of Siena.

Administrative Office: Department of History, Archaeology, Geography, Fine & Performing Arts (SAGAS)

Curricula:
1) History of Art
2) History of Performing Arts

Description:
This Ph.D. programme is aimed at those who propose to carry out research in the field of History of Art and Performing Arts, with particular reference to the Tuscan region, its historical patrimony, as well as its development prospects and its relation to the wider European context. The History of Art curriculum is
rooted in the established critical traditions and skills necessary for the identification of the contexts of production and reception essential for the understanding of artworks, studied as intellectual and material products and in the variety of their meanings, from the Middle Ages to the contemporary period. It avails itself of philological and historiographical research, and fosters a range of methodological approaches, from archival work up to the most recent methodological trends of the discipline. Privileged areas of study are: cultural transfers, extended to an international perspective; aspects of commissioning and collecting; organisation of museums and exhibitions; modes of reception in relation to art literature as well as to the history of criticism; modes of production and irradiation as part of the minor arts. The History of Performing Arts curriculum is based on a solid historical tradition which analyses the language of the arts (theatre, music, cinema and video, history of the actor) in accordance with the most innovative methodological trends in historical research and theoretical (even under the profile of reception). Privileged fields of research are the origins of the show (the birth of the opera, the creation of theatrical scenery, the notion of theatre the ‘Italian way’, the spreading of professional acting, the productive system, the socio-political fall-out); the study of archival (including multimedia) and book sources both of theatrical as well as of musical and audiovisual nature; the widespread dissemination of historical theatres; cinema in Tuscany; the network of theatrical, musical and cinematographic institutions; the study of actors and singers; video art, new media, the relation between cinema and art; the analysis of drama (even contemporary); the critical and historiographical tradition.

No. of Positions: 9
Scholarships: 9
- 2 University of Florence
- 7 Tuscany Region Pegaso Scholarships 2013 – co-financed by the University of Florence

Evaluation of candidates:
Candidates will be selected by written examination, oral examination, evaluation of their curriculum vitae and of their other qualification documents and of their research project [cf. Article 12, paragraph 1, sub-paragraph b) of Regulation, regional decree No. 670 of 04 July 2013].

Themes of the examination:

Written examination: subjects, topics and methodologies typical of the areas of research pertaining to the Ph.D programme. The topics proposed by the Committee will allow a development in line with the specific curriculum, history of art or performing arts, chosen by each candidate.

Oral examination:
- Evaluation of the curriculum vitae
- Interview aimed at verifying the candidate’s competence in the field, the contents, suitability, and modalities of the proposed research project
- Verification of the candidate’s knowledge of English and of a second language

Documents to be attached to the application form:
- Copy of thesis (Master or equivalent degree) in .pdf format;
- Curriculum vitae (education and training, professional experience, qualification documents and publications relating to the areas of the Ph.D., skills and competences relevant to the evaluation);
- Research proposal consistent with the theme of the Ph.D. This research proposal should not be less than 10,000 and not more than 20,000 characters (including spacing). It must specify the topic of research, outline its place with respect to the state of art, clarify its originality and indicate how the research will unfold throughout the three years of the Ph.D.

A good knowledge of spoken and written English is requested.
**PH.D. in Historical Studies**

*Coordinator Prof. Andrea Zorzi*

**Administrative office:** Department of History, Archaeology, Geography, Fine & Performing Arts (SAGAS)

**Branch office:** University of Siena

**Curricula:**
1) History and Civilisation of the Ancient World and the Near East
2) Medieval History
3) Modern History
4) Contemporary History
5) Book, Institutions and Archive Science

**No. of Positions:** 12

**Scholarships:** 6
- 3 University of Florence
- 3 University of Siena

**Positions with no scholarship:** 6
of which 4 are reserved to citizens of foreign countries supported by a scholarship by a foreign State or by specific international mobility programmes qualified for admission Ph.D. course in foreign universities.

**Evaluation of candidates:**
oral examination, evaluation of the curriculum, of any other qualification document and of the research project through a score system as specified below [cf. Article 12, paragraph 1, sub-paragraph c) of Doctoral Regulation of 04 July 2013].

**Scoring of candidates:**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>maximum score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curriculum vitae, qualification documents and publications (if any)</td>
<td>20/120</td>
</tr>
<tr>
<td>Research project</td>
<td>40/120</td>
</tr>
<tr>
<td>Oral examination: discussion of the project in order to evaluate the candidate’s attitude towards the research</td>
<td>60/120</td>
</tr>
</tbody>
</table>

All candidates who obtain at least 40 points in the evaluation of the curriculum vitae, qualification documents and the preparation of the project, are admitted to the oral examination. The oral examination is passed with a minimum score of 40 points.

The research project will be discussed and evaluated during the oral examination.

During the oral examination the general and specific competence on the historical and historiographical period and on the themes of the research will also be examined,

During the oral examination an evaluation on the knowledge of English and a second language will be held for the candidates who have graduated in Italian Universities, and of the Italian language (Standard Level B2) for candidates graduated in non-Italian Universities.

**Documents to be attached to the application form:**
- degree certificate (Master or equivalent);
- list of exams taken with the relative grades;
- curriculum vitae (education and training, professional experience, qualification documents and publications relating to the areas of the Ph.D., skills and competences relevant to the evaluation) with a list of all the additional qualification documents and any other scientific publications;
copy of the degree thesis;
- any additional qualification document;
- Research project, consistent with the curriculum of the Ph.D., to which explicit reference to one (or more) must be made. This project must be at least 8,000 and not more than 10,000 characters (excluding spacing), and accompanied by a brief summary of maximum 200 words. The project must specify the topic of the research, clarify the characteristics of originality and systematically indicate the state of the art on the argument (with adequate bibliographical references) and the areas for investigation which are considered to be usefully developed throughout the three years of the Ph.D.;

The presentation of the following documents is requested for candidates graduated in non-Italian Universities:
- university certificates in original language and translated into Italian or English;
- curriculum vitae in Italian or English;
- one recommendation letter in English by a qualified scholar;
- a copy of the thesis (or equivalent) with abstract in Italian or English;
- research project in Italian or English;
- certification of good knowledge of Italian (Level Standard B2);
- any certification of the award of a scholarship by a foreign State or within specific international mobility programmes.