# PhD programme

**INFORMATION ENGINEERING**

**President:** Prof. Marco Luise

**Department:** Department of Ingegneria dell’Informazione – Via G. Caruso, 16 – PISA

**Admission requirements:** All Master’s degrees

**Outcome of the selection procedure:** Ranking of candidates for the whole PhD programme

## PhD Positions Available

<table>
<thead>
<tr>
<th>Positions available</th>
<th>of which</th>
<th>18 with grant</th>
<th>1 with grant reserved to students who have graduated from foreign universities</th>
<th>5 without grant</th>
</tr>
</thead>
</table>

## Supernumerary positions

Pursuant to Article 6 of the competition announcement, candidates who are eligible for the competition to be admitted in supernumerary must forward, to the email address concorsodottorato@unipi.it, Annex C after having held the interview but no later than three days thereafter on the date of the latter.

## Details:

- 7 grants financed by Università di Pisa
- 1 grant financed by Università di Pisa reserved to students who have graduated from foreign universities
- 1 grant financed by Centro Piaggio of University of Pisa on subject “Computational models for the study of the neuro-physiological response to emotional stimuli (European Project POTION)”
- 1 grant financed by Centro Piaggio of University of Pisa on subject “Development of a Bioprinting system for the realization of bioartificial bone cuttings (GIOTTO Project)”
- 1 grant financed by Department of University of Pisa on subject “Industrial Internet of things (Progetto CrossLab)”
- 1 grant financed by Department of University of Pisa on subject “Cloud Computing, Big Data and Cybersecurity (Progetto CrossLab)”
- 1 grant financed by Department of University of Pisa on subject “Printing and characterization of devices related to the ERC project PEP2D”
- 1 grant financed by RF Microtech Srl on subject “Study and development of Radar technologies for the localization,”
<table>
<thead>
<tr>
<th>1</th>
<th>grant financed by NetResults Srl on subject “Study and resolution of 5G hyper-scalability problems for the slicing of voice, video, messaging and unified communication service stations”</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>grants financed by Fondazione IIT on subject “Soft Robotics for Human Cooperation and Rehabilitation”</td>
</tr>
<tr>
<td>1</td>
<td>grant financed by ISTI Faedo on subject “the candidate may choose any topic that is of interest to the “Istituto di Scienze e Tecnologia dell’Informazione” (Institute of Information Science and Technology) of the “Consiglio Nazionale delle Ricerche” (National Research Council) (<a href="http://www.isti.cnr.it">www.isti.cnr.it</a>), and is also covered by the doctorate”</td>
</tr>
</tbody>
</table>

**Selection criteria:**

**Curriculum**

The curriculum, signed and accompanied by a copy of a valid identification document, must be uploaded only during the application process. The curriculum must provide information about the candidate’s academic education as well as his/her professional and research experience. **The candidate must attach any document useful for the assessment of his/her curriculum.**

The candidate who intends to submit to the evaluation of the Selection Board any document related to his/her academic records held at the University of Pisa, must make an explicit request of acquisition “through office” in the aforementioned curriculum.

**Minimum grade:** 30 out of 50

**Interview**

The list of candidates who are invited to take an interview will be published at [http://dottorato.unipi.it/](http://dottorato.unipi.it/). “Admissions” should take place at least five days before the interview.

The interview will assess the candidate’s knowledge, her/his aptitude for research, openness to academic experiences in Italy and abroad, and an interest in scientific deepening. The interview aims at verifying the capability of the candidate to positively join in the research activities of the PhD program.

**Minimum grade:** 30 out of 50

The test schedule (where applicable) and venue, will be published the 30 of May 2019 at [http://dottorato.unipi.it/](http://dottorato.unipi.it/) - "Admission and enrolment".

**Web conference:** ✅

Candidates wishing to attend the videoconference are required to upload the form in attachment D, during online procedure. The Selection Boards will examine any request received after 29 May 2019 and will evaluate their acceptance, also considering the required technical times for the videoconference interview organisation.
Guidelines for the presentation of the PhD Research project

**Required:** YES
to be evaluated together with the curriculum and to be illustrated at the interview

The candidate must upload the research project during the online application process by the deadline of the announcement. In order to highlight the capacity to carry out the project, the research project will be evaluated together with the curriculum and the candidate discuss it during the interview.

“The research project shall briefly describe (no more than 5 pages of text/figures) the general idea, the methodology, the development phases, and the expected results of a research project in the field of “Ingegneria dell’Informazione” (Electronic, Computer, Telecommunications, Automation/Robotics, or Biomedical Engineering) that the candidate intends to develop within the PhD program”

INFO:

**Overview and objectives of the PhD course:**
The aim of the Doctorate program is the creation of skilled young researchers in the general field of ICT, Automation, Robotics, and Biomedical Engineering, and in particular in the following areas: Analog and RF circuit design; Assistive technologies and Rehabilitation; Automation; Communications; Digital circuits and systems; Distributed and Embedded Systems, and Pervasive Computing; Electromagnetics; Guidance and Navigation; Information Systems; Intelligent Systems; Medical Imaging; Micro/Nanosystems and Nanoelectronics; Nanotechnologies; Networking; Radar Systems; Remote Sensing; Robotics; Sensors, Biosensors, and Intelligent Materials; Signal and Image processing; Vehicular and power electronics. The program is hosted by the Dipartimento di Ingegneria dell’Informazione (DII) www.dii.unipi.it of the University of Pisa, counting more than 80 permanent teaching/research staff, as well as more than 20 laboratories in the areas above. By its very nature, and exploiting the resources of the DII, the Doctoral program represents a special opportunity towards the creation of those multi-disciplinary skills that the world of research more and more calls for.

**Website:**
http://phd.dii.unipi.it/en