



POLITECNICO  
MILANO 1863

MILANO  
LEONARDO  
CAMPUS

# INFORMATION TECHNOLOGY

# PHD PROGRAMS

## Programme

The PhD course in Information Technology is hosted at the Dipartimento di Elettronica, Informazione e Bioingegneria (DEIB) and is part of the PoliMi PhD School. It offers advanced training and research activities in four wide research areas: Computer Science and Engineering, Electronics, Systems and Control, and Telecommunications. More in detail, these four main research areas at DEIB group together several sub-areas, as listed in the following: computer system architectures; data, web and society; artificial intelligence and robotics; advanced software architectures and methodologies; information systems; electron devices; smart microsensors and microsystems; electronic circuit design; single-photon detectors and applications; radiation detectors and applications; digital systems; dynamics of complex systems; planning and management of environmental systems; operations research and discrete optimization; robotics and industrial automation; control systems; signal processing for multimedia and telecommunications; applied electromagnetics; networking; remote sensing; information transmission (see <http://www.deib.polimi.it/eng/research-lines>, for details).

The PhD program in IT gives candidates the opportunity to acquire a high degree of professional expertise in these diverse scientific and technological fields.

## Mission and goals

Our mission is the training of highly motivated students in the Information Technology field. The PhD teaching program consists of classroom courses and independent study, both aimed at developing advanced research skills and competence on innovative topics. The research activity of our PhD students is expected to generate research results that can be recognized by the international community.

Advanced courses offered by the professors at DEIB bring the attendants

to the frontiers of knowledge in those sectors where DEIB's research is most active. Other courses, aimed at the development of more general skills (e.g., soft skills), are offered by the PhD School of the Politecnico di Milano. Courses are held at Leonardo Campus in Milan. The participation to national and international summer schools is also encouraged.

Our PhD program enrolls about 65 students every year. Each PhD student is assisted by a research advisor who oversees the research activity and a professor of the Doctoral Board as a tutor.

The program typically lasts 3 years and, upon its successful completion, candidates are awarded the title of PhD in Information Technology.

### **Career Opportunities**

Holders of a PhD degree in Information Technology have access to positions at the highest levels of scientific research in IT and related areas. Depending on their interests and ambitions, PhD's may decide to move towards an academic or industrial career, either in Italy or abroad. Many of our past students are now active researchers both in academia, research centers, and high-tech companies worldwide. Some of them established their own companies, and some achieved leading managerial positions in large companies.

### **Eligible students**

Eligible candidates must hold a Master of Science or equivalent University degree, obtained either in Italy or in a foreign university. Specific information on admission requirements is available in the call for applications, which is published on the web pages of the PhD School.

### **Scholarships**

Three types of scholarships can be offered to PhD candidates in Information Technology: governmental (approx. 20 per year), departmental, funded by research projects within the Department (approx. 30 per year), and industrial (approx. 15 per year).

### **Contacts**

To explore possible PhD activities at DEIB, contact the chair of the PhD program or the reference vice-chairs for each area:

Chair: Prof. Luigi Piroddi

Vice-chair for Computer Science and Engineering: Prof. Francesco Amigoni

Vice-chair for Electronics: Prof. Angelo Geraci

Vice-chair for Systems and Control: Prof. Lorenzo Mario Fagiano

Vice-chair for Telecommunications: Prof. Carlo Riva

Web site:

<https://www.dottorato.polimi.it/en/phd-programmes/engineering/information-technology>

Contacts:

[phd-inf@polimi.it](mailto:phd-inf@polimi.it)

