

# INFORMATION TECHNOLOGY



POLITECNICO  
MILANO 1863

MILANO  
LEONARDO  
CAMPUS

# 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 activity in four wide research areas: Computer Science and Engineering, Electronics, System and Control, Telecommunications. Sub-areas present at DEIB are: 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 programme in IT provides successful candidates with the opportunity to acquire a high degree of professional expertise in specific scientific and technological fields.

The courses are given at Leonardo Campus in Milan.

## Mission and goals

Our mission is to develop highly motivated and formed people able to advance research in the Information Technology field.

The study activity consists of courses and individually guided study, aimed at developing general research skills and competence on innovative topics; the main research activity is focused to produce results that can be recognized by the international community.

Advanced courses offered by DEIB professors bring the attendants to the

frontiers of knowledge in those sectors where DEIB's research is most active. These are integrated by courses offered by the School which give the possibility to develop general skills. It is also possible to participate to national and international summer schools.

Our PhD programme enrolls every year about 60. Once admitted, each PhD student chooses a research advisor that will guide the research activity, and a professor of the Doctoral Board as a tutor.

The program lasts 3 years and, upon its successful completion and final exam, candidates will be awarded the title of PhD in Information Technology.

The research activity at DEIB in the framework of Information Technology is organized in the above mentioned four research areas. In the following, the chair and reference vice-chairs for each area are reported, as contact persons to explore possible PhD activities at DEIB:

Chair: Prof. Andrea Bonarini

Vice-chair for Computer Science and Engineering: Prof. Cristiana Bolchini

Vice-chair for Electronics: Prof. Angelo Geraci

Vice-chair for System and Control: Prof. Paolo Bolzern

Vice-chair for Telecommunications: Prof. Andrea Monti-Guarnieri

## Career Opportunities

The PhD degree in Information Technology makes way for the highest levels of scientific research in the ICT and related areas. Depending on their interests, their personal inclinations and the circumstances, students who have reached the PhD degree may head for a career at university or in industry, both in Italy and abroad. Many of our past students are now active researchers either in academia and research centers of national institutions and high tech companies worldwide, some of them even established their own companies, and some got leading positions.

Each year Politecnico di Milano offers posdoc positions supported by the many research projects active in this area.

## Eligible students

Eligible students to participate in the competition for admission to PhD positions must hold an University degree equivalent to a Master of Science, obtained either in Italy or in a foreign University. Specific information on admission requirements are available in the call for applications, published on the Polimi PhD School web pages.

## Scholarships

To PhD students in Information Technology three types of scholarships can be offered, granted from: government (n. 20 approx., yearly), department, based on research project funds (n. 30 approx., yearly), companies (n. 3 approx., yearly).

In addition, most of the students without a scholarship are supported through collaborations to the many research projects active at DEIB.

## Contacts

For further information, please visit the following web site

[www.dottorato.polimi.it/en/phd/IT](http://www.dottorato.polimi.it/en/phd/IT)

or contact the School of Doctoral Programmes - Politecnico di Milano at [phdschool@polimi.it](mailto:phdschool@polimi.it).

For further information on specific courses and curricula contact the IT Doctorate at

[dottoratoinginfo-deib@polimi.it](mailto:dottoratoinginfo-deib@polimi.it)

