



**POLITECNICO**  
MILANO 1863

**MILANO  
LEONARDO  
CAMPUS**

# ENVIRONMENTAL AND INFRASTRUCTURE ENGINEERING

## PHD PROGRAMS

### Programme

The PhD Course is part of the research and educational programme offered at the Department of Civil and Environmental Engineering and comprises the key areas of Hydraulic Engineering; Hydrology, Hydraulic Structures, Water Resources and Coastal Engineering; Environmental Technologies; Transport Infrastructures and Geosciences; and Geomatics. Educational and research activities are designed to integrate qualitative process identification, rigorous mathematical treatment and modeling according to increasing levels of complexity, and presentation and design of ensuing applications and implications to engineering problems and scenarios.

### Mission and goals

The doctorate programme aims at providing effective and first-class skills in the fields covered by critical areas such as fluid mechanics, hydraulics, hydrology, hydrogeology and water resources, environmental technologies for water, soil and atmosphere, transportation technologies and risk management and mitigation, geodesy and geomatics, surveying, data analysis, archiving and representation.

Candidates are required to attend doctoral-level courses which cover a broad spectrum of topics, ranging from general theoretical and methodological aspects to focused and specialized subjects. Classes are chiefly grouped within the first three semesters of the program. Candidates progressively develop their own research project and ideas, leading to their PhD dissertation. The PhD programme strongly and actively encourages active participation to scientific congresses and summer schools as well as research cooperation with international research institutions. All research and educational activities are jointly coordinated by the PhD Tutor and Advisor.

Specific information concerning research areas can be requested at:

Prof. Gianfranco Becciu (gianfranco.becciu@polimi.it): Water Science and Engineering

Prof. Monica Papini (monica.papini@polimi.it): Transport Infrastructures and Geosciences

Prof. Monica Riva (monica.riva@polimi.it): Hydraulic Engineering

Prof. Roberto Canziani (roberto.canziani@polimi.it): Environmental Technologies

Prof. Giovanna Venuti (giovanna.venuti@polimi.it): Geomatics

## Career Opportunities

A PhD in Environmental and Infrastructure Engineering provides highly qualified and skilled personnel for key positions and roles in research agencies, Public Bodies and Authorities involved in environmental policies, engineering companies, and industry related engineering applications.

## Eligible students

Students with a Master degree in Engineering, Architecture, Physics, Mathematics and Natural Sciences can apply to the program. Engineers with a Master degree in Civil and/or Environmental Engineering are particularly eligible as PhD students/candidates.

## Scholarships

Fellowships are funded by various bodies/organizations, including external private/public research agencies, private firms, universities. Examples include: CAP Holding, Metropolitana Milanese, Pibiviesse, RSE S.p.A. (Ricerca sul Sistema Energetico), Lario Reti Holding, EURAC, Goodyear-LIST. Each fellowship is keyed to a specific research area and theme.

## Contacts

For further information, please visit the following web site:

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

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

For information on specific aspects of the course and curricula, please contact: [PhD-IAI@polimi.it](mailto:PhD-IAI@polimi.it)

