



POLITECNICO
MILANO 1863

**MILANO
LEONARDO
AND
BOVISA
CAMPUS**

ENERGY AND NUCLEAR SCIENCE AND TECHNOLOGY

PHD PROGRAMS

Programme

The PhD Programme in “Energy and Nuclear Science and Technology” is strictly related to the research activities of the Department of Energy, which are characterized by the existence of research topics common to the “Energy and Nuclear Science and Technology” and by other aspects more specific to the energy and the nuclear fields. The structure of the courses offered by the STEN Ph.D Programme includes fundamental and interdisciplinary topics of common interest for all PhD candidates.

Courses are held at Bovisa Campus

Mission and goals

The Ph.D. course aims at providing high quality training to scientific research and, as a consequence, at forming professional profiles capable of tackling the numerous activities involved in high level research, both in the academics and in the industry, which often require a higher level of education than that offered by the “Laurea Specialistica/Magistrale” and Master study courses. The Ph.D. graduate is specifically trained for leading, organizing, planning, managing and controlling research activities at high levels of international competitiveness in the field of Energy and Nuclear Science and Technology, with special regards to the following research areas: production, conversion and transmission of energy, rational use of energy, nuclear systems and nuclear fuel cycle, radioprotection and application of ionizing radiations, methods for safety and reliability analysis, and development of innovative materials for energy applications.

According to the general requirements of the School of Doctoral Programs of Politecnico di Milano, the structure of the Ph.D. course is divided in two areas, one for education (30 credits minimum) and one for research (at least two years for the Ph.D. thesis). The Ph.D. candidate will choose the educational path and activities for each single stage, in agreement

with the Tutor and the Advisor, submitting the choice to the Faculty Committee for approval.

Head of the Doctoral Programme: Prof. Vincenzo Dossena; Secretary of the Faculty Committee: Prof. Matteo Passoni.

Career Opportunities

Public and private entities, industrial companies, universities and private research institutes in the areas of energy production, conversion and transmission, rational use of energy, risk and reliability analysis, materials for energy production, measurement instrumentation, managing and control of nuclear plants and components, design and development of nuclear systems.

Eligible students

Application is open to students holding a 5-year “laurea” (prior to DM 509/99), a “laurea specialistica”, a “laurea magistrale” or an equivalent title from a foreign university, upon recognition from the competent Faculty Committee even within bilateral agreements with that university. Admission is selective and based on the verification of the applicant’s research capabilities.

Scholarships

The number of available positions, funded by both the Italian University Ministry and other institutions (private and public) varies from one year to another.

The yearly net scholarship is approx. equal to at least € 14.400. Additional revenues are possible.

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.

For further specific information on STEN programme, visit the following web site:

<https://www.dottorato.polimi.it/en/phd-programmes/engineering/energy-and-nuclear-science-and-technology>

or send an email to PhD-STEN@polimi.it

