

PhD Programme in “Energy and Nuclear Science and Technology”

The PhD programme in “Energy and Nuclear Science and Technology” offers 8 positions (of which 6 fully funded with scholarships) for the 39th PhD cycle at Politecnico di Milano. All scholarships cover three years of study and research.

The STEN PhD graduate is specifically trained for leading, organizing, planning, managing and controlling research activities at the highest levels of international competitiveness in the all the fields of Energy and Nuclear Science and Technology. The STEN PhD Programme is strictly related to the research activities and laboratories of the Department of Energy. Internships or visiting periods to international research institutes, private companies and qualified laboratories, as well as participation to conferences, seminars, etc. are warmly encouraged. The STEN PhD programme is organized in two tracks. The “Energy” track allows to develop scientific and research competencies in all aspects related to production, conversion and rational and sustainable use of energy in fixed or mobile plants as well as in all the fundamental aspects related to energy saving for civil applications, comfort and environment quality control. The “Nuclear” track allows the PhD candidate to develop competences in the pioneering research necessary to design build and operate a nuclear system, including: reactor physics, radiochemistry, radioactive waste management, radioprotection, decommissioning, radiation measurements and applications of ionizing radiations to energy-related issues in other fields.

The present call includes the following scholarships:

#	Type	Research Topic	Granting Institution
1	Open Subject	<i>“Energy and Nuclear Science and Technology”</i>	Italian Ministry of University and Research Politecnico di Milano
2	Thematic	<i>“DEVELOPMENT OF A HYBRID ABSORPTION-COMPRESSION HEAT PUMP FOR HIGH TEMPERATURE RESIDENTIAL APPLICATIONS”</i>	Italian Ministry of University and Research Politecnico di Milano
3	Thematic	<i>“ADVANCED SEPARATION PROCESSES AND INNOVATIVE METHODS FOR THE TREATMENT, DECONTAMINATION AND CONFINEMENT OF RADIOACTIVE WASTES”</i>	Italian Ministry of University and Research Politecnico di Milano
4	Thematic	<i>“DEVELOPING AND TESTING LIQUID HYDROGEN STORAGE TECHNOLOGIES FOR MOBILE APPLICATIONS”</i>	Italian Ministry of University and Research Politecnico di Milano



5	Thematic	<i>"OPEN SOURCE CFD MODELS FOR THE DESIGN OF INNOVATIVE GAS DISTRIBUTORS IN POLYMER ELECTROLYTE FUEL CELLS"</i>	Department of Energy
6	Thematic	<i>"MODELLING AND OPTIMIZATION OF HIGH EFFICIENCY POWER GENERATION CYCLES"</i>	Department of Energy

Please notice that, in order to be eligible for the scholarships, you must (in the registration process) declare that you intend to compete for a scholarship (see section 6.4 of the [Quickstart](#)).

For further information about the Open Subject scholarships please visit the [Open Subject Scholarships webpage](#)

For further information about the Thematic scholarships please visit the [Thematic Scholarships webpage](#)