



PhD Programme in “Physics”

The PhD programme in Physics offers 25 positions (of which 20 fully funded) for the 38th PhD cycle at Politecnico di Milano. All scholarships cover three years of study and research.

The PhD Course is characterized by a strong experimental character. It aims at providing high scientific education and training to develop general research abilities in all areas of applied physics, as increasingly needed by advanced technological companies. The education contents are strictly related to the research activities carried out in the advanced experimental laboratories at the Department of Physics. All research activities are performed in collaboration with high level international institutions. Besides experimental basic research, consistent effort is devoted to the design and development of innovative instrumentation.

The PhD programme aims at the development of an experimental approach in problem solving techniques and at the attainment of a high level of professional qualification, opening job opportunities such as

- ✓ researcher in companies, universities, research centres
- ✓ designer of advanced devices and systems relying on physics technologies in high-tech industries and small innovative companies
- ✓ system manager to solve methodological and technological problems in large companies.

The enclosed tables summarize the scholarships issued in the present call.

Please notice that, in order to be eligible for any of the scholarships, you must (in the registration process) declare that you intend to compete for a scholarship (see also sections 6.4 and 7.6 of the [Quickstart](#) manual).

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](#)

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



#	Type	Research Topic	Granting Institution
1	Open Subject	<i>"Physics"</i>	Italian Ministry of University and Research Politecnico di Milano
2	Open Subject	<i>"Physics"</i>	Italian Ministry of University and Research Politecnico di Milano
3	Open Subject	<i>"Physics"</i>	Italian Ministry of University and Research Politecnico di Milano
4	Open Subject	<i>"Physics"</i>	Italian Ministry of University and Research Politecnico di Milano
5	Open Subject	<i>"Physics"</i>	Italian Ministry of University and Research Politecnico di Milano
6	Open Subject	<i>"Physics"</i>	Italian Ministry of University and Research Politecnico di Milano
7	Open Subject	<i>"Physics"</i>	Italian Ministry of University and Research Politecnico di Milano
8	Thematic	<i>"Nanostructuring Quantum Materials For Nanoelectronics And Spintronics"</i>	Department of Physics H2020-ERC-2020-Stg - B3YOND - GA 948225
9	Thematic	<i>"Printed Electronics For Radio Frequencies"</i>	IIT – Italian Institute of Technology
10	Thematic	<i>"Edible Electronics"</i>	IIT – Italian Institute of Technology
11	Thematic	<i>"Advanced Microscopy Of Nanostructured Interfaces And 2d Materials"</i>	IIT – Italian Institute of Technology
12	Thematic	<i>"Computational Methods In Flat Optics."</i>	IIT – Italian Institute of Technology
13	Thematic	<i>"Light-Matter Interaction In Metamaterials And Metasurfaces."</i>	IIT – Italian Institute of Technology
14	Thematic	<i>"Lab-On-A Chip For Bio-Applications - Photonics Meets Microfluidic And Life Science"</i>	IIT – Italian Institute of Technology
15	Thematic	<i>"Nano Materials For The New Generation Human Machine Interface"</i>	IIT – Italian Institute of Technology
16	Thematic	<i>"Spectroscopic Investigations Of Quantum Transition- Metal Fluorides"</i>	Department of Physics PRIN2020
17	Thematic	<i>"Integrated Quantum Photonic Processor"</i>	CNR/IFN
18	Thematic	<i>"Integration Of Led-Free Piezoelectric Materials In MemS"</i>	STMICROELECTRONICS S.R.L.
19	Thematic	<i>"Ultrafast Near- And Mid-Infrared Fiber Laser For Hyperspectral Vibrational Microscopy Applied To Histopathology And Precision Medicine"</i>	CNR - CRI CAMBRIDGE RAMAN IMAGING LTD
20	Interdisciplinary	Industry 4.0: <i>"Physical / Chemical Analysis Of Nanostructured Interfaces For New Generation Batteries"</i>	Politecnico di Milano



POLITECNICO
MILANO 1863



PHD SCHOOL

	In collaboration with the PhD programme in “Energy and Nuclear Science and Technology”	
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