

PhD Programme in “Information Technology”

The PhD programme in “Information Technology” offers 50 positions (of which 39 fully granted with scholarships) for the 36th PhD cycle at Politecnico di Milano. All scholarships cover three years of study and research.

The present call includes the following scholarships

#	Type	Research topic	Granting Institution
1	Generic	<i>“Information Technology”</i> Area 1: <i>Computer Science and Engineering</i>	Italian Ministry of University and Research Politecnico di Milano
2	Generic	<i>“Information Technology”</i> Area 1: <i>Computer Science and Engineering</i>	Italian Ministry of University and Research Politecnico di Milano
3	Generic	<i>“Information Technology”</i> Area 1: <i>Computer Science and Engineering</i>	Italian Ministry of University and Research Politecnico di Milano
4	Generic	<i>“Information Technology”</i> Area 1: <i>Computer Science and Engineering</i>	Italian Ministry of University and Research Politecnico di Milano
5	Generic	<i>“Information Technology”</i> Area 1: <i>Computer Science and Engineering</i>	Italian Ministry of University and Research Politecnico di Milano
6	Generic	<i>“Information Technology”</i> Area 1: <i>Computer Science and Engineering</i>	Italian Ministry of University and Research Politecnico di Milano
7	Generic	<i>“Information Technology”</i> Area 2: <i>Electronics</i>	Italian Ministry of University and Research Politecnico di Milano
8	Generic	<i>“Information Technology”</i> Area 2: <i>Electronics</i>	Italian Ministry of University and Research Politecnico di Milano
9	Generic	<i>“Information Technology”</i> Area 2: <i>Electronics</i>	Italian Ministry of University and Research Politecnico di Milano
10	Generic	<i>“Information Technology”</i> Area 2: <i>Electronics</i>	Italian Ministry of University and Research Politecnico di Milano



11	Generic	<i>"Information Technology"</i> Area 3: <i>Systems and Control</i>	Italian Ministry of University and Research Politecnico di Milano
12	Generic	<i>"Information Technology"</i> Area 3: <i>Systems and Control</i>	Italian Ministry of University and Research Politecnico di Milano
13	Generic	<i>"Information Technology"</i> Area 3: <i>Systems and Control</i>	Italian Ministry of University and Research Politecnico di Milano
14	Generic	<i>"Information Technology"</i> Area 4: <i>Telecommunications</i>	Italian Ministry of University and Research Politecnico di Milano
15	Generic	<i>"Information Technology"</i> Area 4: <i>Telecommunications</i>	Italian Ministry of University and Research Politecnico di Milano
16	Generic	<i>"Information Technology"</i> Area 4: <i>Telecommunications</i>	Italian Ministry of University and Research Politecnico di Milano
17	Generic	<i>"Information Technology"</i> Area 1: <i>Computer Science and Engineering</i>	Department of Electronics, Information and Bioengineering
18	Generic	<i>"Information Technology"</i> Area 1: <i>Computer Science and Engineering</i>	Department of Electronics, Information and Bioengineering
19	Generic	<i>"Information Technology"</i> Area 2: <i>Electronics</i>	Department of Electronics, Information and Bioengineering
20	Generic	<i>"Information Technology"</i> Area 3: <i>Systems and Control</i>	Department of Electronics, Information and Bioengineering
21	Generic	<i>"Information Technology"</i> Area 4: <i>Telecommunications</i>	Department of Electronics, Information and Bioengineering
22	Generic	<i>"Information Technology"</i> Area 3: <i>Systems and Control</i>	Department of Electronics, Information and Bioengineering PhD program in <i>"Information Technology"</i>
23	Generic	<i>"Information Technology"</i> Area 4: <i>Telecommunications</i>	Department of Electronics, Information and Bioengineering PhD program in <i>"Information Technology"</i>
24	Interdisciplinary	Health: <i>"Development of an electronic nose for non-invasive cancer diagnosis with low-noise sensing and digitization"</i> Area 2: <i>Electronics</i> In collaboration with the PhD programme in <i>"Chemical Engineering and Industrial Chemistry"</i>	Politecnico di Milano



25	Interdisciplinary	Industry 4.0: <i>"Extracting value from scientific data"</i> Area 1: <i>Computer Science and Engineering</i> In collaboration with the PhD programme in "Chemical Engineering and Industrial Chemistry"	Politecnico di Milano
26	Interdisciplinary	Health: <i>"Innovative methods for targeting native tumors integrating 3D cell culture with genomic computing (GECOID)"</i> Area 1: <i>Computer Science and Engineering</i> In collaboration with the PhD programme in "Bioengineering"	Politecnico di Milano
27	Interdisciplinary	Health: <i>"Molecular Communication for Human Health Applications: Back and Forth from Theory to Practice"</i> Area 4: <i>Telecommunications</i> In collaboration with the PhD programme in "Bioengineering"	Politecnico di Milano
28	Topic	<i>"Harnessing Deep Learning in Support of Citizen Scientists"</i> Area 1: <i>Computer Science and Engineering</i>	H2020 project CROWD4SDG Citizen Science for Monitoring Climate Impacts and Achieving Climate Resilience
29	Topic	<i>"Tiny-ML toolchain for ultra-constrained processors"</i> Area 1: <i>Computer Science and Engineering</i>	EU-EIT Digital/ST Microelectronics
30	Topic	<i>"Quantum Machine Learning for Cybersecurity"</i> Area 1: <i>"Computer Science and Engineering"</i>	Department of Electronics, Information and Bioengineering
31	Topic	<i>"Change and Anomaly Detection in Multivariate and Heterogeneous Datastreams"</i> Area 1: <i>Computer Science and Engineering</i>	ST Microelectronics
32	Topic	<i>"Deep Learning and Natural Language Processing for Advanced Industrial Process Mining"</i> Area 1: <i>Computer Science and Engineering</i>	CNR STIIMA - Istituto di Sistemi e Tecnologie Industriali per il Manifatturiero Avanzato
33	Topic	<i>"Hardware Implementation of Post-Quantum Cryptographic Algorithms for the IoT"</i> Area 1: <i>Computer Science and Engineering</i>	ST Microelectronics
34	Topic	<i>"Methods and Tools to Support Architectures for Deep Neural Networks"</i> Area 1: <i>Computer Science and Engineering</i>	ST Microelectronics
35	Topic	<i>"UX personalization for innovative digital media services"</i> Area 1: <i>Computer Science and Engineering</i>	Contentwise

36	Topic	<i>“UX personalization for innovative digital media services”</i> Area 1: Computer Science and Engineering	Contentwise
37	Topic	<i>“Advanced Asics for Scientific Instrumentation for Astrophysics”</i> Area 2: Electronics	INAF - Istituto Nazionale di Astrofisica
38	Topic	<i>“Study and development of Application Specific Integrated Circuits (ASICs) for high resolution and high speed X and Gamma ray spectroscopy”</i> Area 2: Electronics	Fondazione Cariplo/Xnext/ Department of Electronics, Information and Bioengineering
39	Topic	<i>“Statistical Machine Learning for Wireless Communications”</i> Area 4 - Telecommunications	Department of Electronics, Information and Bioengineering

The following further scholarships will be included in the grant in late May. Candidates who participate to the call will be invited to option these scholarships through the online procedure by mid-June.

#	Type	Research topic	Granting Institution
40	Topic	<i>“Codesign Methodologies for FPGA-based Computing Infrastructure to Support Genomics Research”</i> Area 1: Computer Science and Engineering	Department of Electronics, Information and Bioengineering
41	Topic	<i>“Study of forming and programming characteristics in materials-engineered embedded phase change memories”</i> Area 2: Electronics	ST Microelectronics
42	Topic	<i>“Human activity segmentation for intelligent collaborative robotics”</i> Area 3: Systems and Control	Department of Electronics, Information and Bioengineering

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 Topic scholarships please visit the [Topic Scholarships webpage](#)

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