



**Politecnico
di Torino**

Nucleo
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Ranking List for the PhD program in Materials, Sustainable Processes and Systems for the Energy Transition 40th Cycle

Total number of positions available: 31

PhD positions with scholarship: 30

PhD positions with scholarships with own research topics: 0

Total number of positions reserved to boursaries of Governments or by national or foreign public bodies: 0

Number of positions without scholarship: 1

Summary tab of scholarships available:

1	Ateneo/DISAT - Sustainable materials and processes for energy storage and CO ₂ -capture/thermal energy recovery exploiting green supercapacitors	Theme-bound scholarship
1	CNR-ISM - Study and development of flexible perovskite solar cells and modules	Theme-bound scholarship
1	DIMEAS - Development and Optimization of Floating Offshore Wind Turbines for the Mediterranean Sea: Techno-Economic and Environmental Impact Analysis	Theme-bound scholarship
1	DIMEAS - Experimental methodologies for testing offshore energy conversion technologies	Theme-bound scholarship
1	DIMEAS - Novel methodologies for mooring system analysis in wave / wind energy systems.	Theme-bound scholarship
1	DISAT - Advanced synthesis, characterization and production of energy harvesting and storage materials for energetic transition devices	Theme-bound scholarship
1	DISAT - Processing and fabrication of energy harvesting and storage devices	Theme-bound scholarship
1	DM 629 PNRR / Development of Piezoionic sensors and energy harvesters from bio-derived polymeric materials	Theme-bound scholarship
1	DM 629 Transizioni/UNIAQ - Electronic properties of topological materials and their surface excitations for the energy and environmental transition	Theme-bound scholarship
1	DM 630/FIB S.p.A. - Analyses of batteries with advanced analytical techniques: from raw material to electrodes and cells	Theme-bound scholarship
1	DM 630/HYSYTECH - Scale up of electrochemical processes for CO ₂ conversion	Theme-bound scholarship

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1	DM 630/MICROLA - Study and design of LASER processes for polymers welding dedicated to innovative packaging fabrication of power electronic devices	Theme-bound scholarship
1	DM 630/SOLVAY SPECIALITY POLYMERS ITALY S.r.l. - Ion Transport Mechanism in Electrochemical Devices	Theme-bound scholarship
1	DM 630/UNICA/3SLAB - Advancements in chemical ionization mass spectrometry and in solid state sensors	Theme-bound scholarship
1	DM 630 UNITO/Centro Ricerche FIAT - Analysis and validation of metal anodes (Li) for solid state Li-ion cells	Theme-bound scholarship
1	DM 630/Univ. La Sapienza/Carl Zeiss - Electron microscopy and nanocharacterization techniques for correlative protocols in studying advanced materials	Theme-bound scholarship
1	DM 630/Applied Materials Italia - Material to device simulations accounting for quantum effects and material imperfection for novel technology nodes	Theme-bound scholarship
1	DM 630/DANIELI&C OFFICINE MECCANICHE - Design of machines for the treatment, crushing, and recycling of ferrous and non-ferrous scrap	Theme-bound scholarship
1	DM 630/HYTER - Anion Exchange Membrane for hydrogen production: characterization, durability and IEC improvement	Theme-bound scholarship
1	DM 630/Lamicolor S.p.A. - Study of solid and volatile materials derived from the valorization process of waste from laminate industry	Theme-bound scholarship
1	DM 630/MISTA S.p.A. - Study of materials and processes dedicated to System In Package (SIP) applied on Electrical Power Module integration	Theme-bound scholarship
1	DM 630/NEW CLEO S.r.l. - Innovative materials for new generation of nuclear reactors	Theme-bound scholarship
1	DM 630/VISHAY - Powering the next generation AI server – architecture and implementation of a '48V based' power delivery network	Theme-bound scholarship
1	DM 630/Vulkan S.r.l. - Development of a Digital Twin Framework for Battery and Fuel Cell-Powered Propulsion Systems in Maritime Vessels	Theme-bound scholarship
1	DM 630/Yanmar R&D Europe S.r.l.- Physical analysis and modelling for post-Li battery chemistries	Theme-bound scholarship
1	DM630 UNINA/CAPTOP Srl - High-Performance GO-Based and Eumelanin related materials for Supercapacitors for Next-Generation Energy Storage Generators	Theme-bound scholarship
1	I.N.R.I.M. - Advanced Metrology for Materials, Sustainable Process and System for energetic transition	Theme-bound scholarship
1	IIT - Green perovskites for photo(electro)catalytic and photovoltaic applications	Theme-bound scholarship
1	Roma La Sapienza/MUR - Multiscale characterization of advanced materials and innovative devices for energy transition	Theme-bound scholarship
1	UNIPA - Carbon dot based-LEDs	Theme-bound scholarship

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SHORTLISTED CANDIDATES

User	Score	Eligibility to scholarship with predefined research topic	Waiving right to scholarship	Allocated scholarship	Notes
F585251	83	IIT - Green perovskites for photo(electro)catalytic and photovoltaic applications		CNR-ISM - Study and development of flexible perovskite solar cells and modules	
		CNR-ISM - Study and development of flexible perovskite solar cells and modules			
F580308	81	DM 630 NEW CLEO S.r.l. - Innovative materials for new generation of nuclear reactors		DM 630 NEW CLEO S.r.l. - Innovative materials for new generation of nuclear reactors	*Conditional admission
F588167	80	DM 630 HYSYTECH - Scale up of electrochemical processes for CO2 conversion		DM 630 HYSYTECH - Scale up of electrochemical processes for CO2 conversion	*Conditional admission Younger applicant prevails
		DM 630 Lamicolor S.p.A. - Study of solid and volatile materials derived from the valorization process of waste from laminate industry			

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User	Score	Eligibility to scholarship with predefined research topic	Waiving right to scholarship	Allocated scholarship	Notes
F587837	80	DM 630 FIB S.p.A. - Analyses of batteries with advanced analytical techniques: from raw material to electrodes and cells		DM 630 FIB S.p.A. - Analyses of batteries with advanced analytical techniques: from raw material to electrodes and cells	*Conditional admission Younger applicant prevails
		DM 630 UNICA/3SLAB - Advancements in chemical ionization mass spectrometry and in solid state sensors			
F586115	80	IIT - Green perovskites for photo(electro)catalytic and photovoltaic applications		IIT - Green perovskites for photo(electro)catalytic and photovoltaic applications	Younger applicant prevails
F496284	80	DM 630 SOLVAY SPECIALITY POLYMERS ITALY S.r.l. - Ion Transport Mechanism in Electrochemical Devices		DM 630 SOLVAY SPECIALITY POLYMERS ITALY S.r.l. - Ion Transport Mechanism in Electrochemical Devices	
F493352	79	Ateneo/DISAT - Sustainable materials and processes for energy storage and CO2-capture/thermal energy recovery exploiting green supercapacitors		Ateneo/DISAT - Sustainable materials and processes for energy storage and CO2-capture/thermal energy recovery exploiting green supercapacitors	*Conditional admission Younger applicant prevails
F570551	79	DM 630 FIB S.p.A. - Analyses of batteries with advanced analytical techniques: from raw material to electrodes and cells		DM 630 UNINA/CAPTOP S.r.l. - High-Performance GO-Based and Eumelanin related materials for Supercapacitors for Next-Generation Energy Storage & Generators	
		DM 630 UNINA/CAPTOP S.r.l. - High-Performance GO-Based and Eumelanin related materials for Supercapacitors for Next-Generation Energy Storage & Generators			

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User	Score	Eligibility to scholarship with predefined research topic	Waiving right to scholarship	Allocated scholarship	Notes
F584203	78	Roma La Sapienza/MUR - Multiscale characterization of advanced materials and innovative devices for energy transition DM 630 Univ. La Sapienza/Carl Zeiss - Electron microscopy and nanocharacterization techniques for correlative protocols in studying advanced materials		DM 630 Univ. La Sapienza/Carl Zeiss - Electron microscopy and nanocharacterization techniques for correlative protocols in studying advanced materials	Younger applicant prevails
F587901	78	DM 630 HYTER - Anion Exchange Membrane for hydrogen production: characterization, durability and IEC improvement		DM 630 HYTER - Anion Exchange Membrane for hydrogen production: characterization, durability and IEC improvement	
F585114	77	DM 630 DANIELI&C OFFICINE MECCANICHE - Design of machines for the treatment, crushing, and recycling of ferrous and non-ferrous scrap		DM 630 DANIELI&C OFFICINE MECCANICHE - Design of machines for the treatment, crushing, and recycling of ferrous and non-ferrous scrap	*Conditional admission
F430502	76		SI		
F334422	75	DM 630 UNITO/Centro Ricerche FIAT - Analysis and validation of metal anodes (Li) for solid state Li-ion cells		DM 630 UNITO/Centro Ricerche FIAT - Analysis and validation of metal anodes (Li) for solid state Li-ion cells	*Conditional admission Younger applicant prevails

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User	Score	Eligibility to scholarship with predefined research topic	Waiving right to scholarship	Allocated scholarship	Notes
F585855	75	I.N.R.I.M. - Advanced Metrology for Materials, Sustainable Process and System for energetic transition		DM 629 Transizioni/UNIAQ - Electronic properties of topological materials and their surface excitations for the energy and environmental transition	*Conditional admission
		DM 629 Transizioni/UNIAQ - Electronic properties of topological materials and their surface excitations for the energy and environmental transition			
F584145	74	DM 630 UNITO/Centro Ricerche FIAT - Analysis and validation of metal anodes (Li) for solid state Li-ion cells		DM 630 Yanmar R&D Europe S.r.l.- Physical analysis and modelling for post-Li battery chemistries	
		DM 630 HYSYTECH - Scale up of electrochemical processes for CO2 conversion			
		DM 630 Yanmar R&D Europe S.r.l.- Physical analysis and modelling for post-Li battery chemistries			
		DM630 UNINA/CAPTOP Srl - High-Performance GO-Based and Eumelanin related materials for Supercapacitors for Next-Generation Energy Storage & Generators			

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User	Score	Eligibility to scholarship with predefined research topic	Waiving right to scholarship	Allocated scholarship	Notes
F510463	73	I.N.R.I.M. - Advanced Metrology for Materials, Sustainable Process and System for energetic transition		DM 630 Applied Materials Italia - Material to device simulations accounting for quantum effects and material imperfection for novel technology nodes	*Conditional admission Younger applicant prevails
		DM 630 Applied Materials Italia - Material to device simulations accounting for quantum effects and material imperfection for novel technology nodes			
F423888	73	DM 630 UNICA/3SLAB - Advancements in chemical ionization mass spectrometry and in solid state sensors		DM 630 UNICA/3SLAB - Advancements in chemical ionization mass spectrometry and in solid state sensors	Younger applicant prevails
		DM 630/Yanmar R&D Europe S.r.l.- Physical analysis and modelling for post-Li battery chemistries			
F581412	73	DM 629 PNRR - Development of Piezoionic sensors and energy harvesters from bio-derived polymeric materials		DM 629 PNRR - Development of Piezoionic sensors and energy harvesters from bio-derived polymeric materials	Younger applicant prevails
F586870	73	I.N.R.I.M. - Advanced Metrology for Materials, Sustainable Process and System for energetic transition		I.N.R.I.M. - Advanced Metrology for Materials, Sustainable Process and System for energetic transition	
		IIT - Green perovskites for photo(electro)catalytic and photovoltaic applications			
		CNR-ISM - Study and development of flexible perovskite solar cells and modules			

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User	Score	Eligibility to scholarship with predefined research topic	Waiving right to scholarship	Allocated scholarship	Notes
F483303	72	DM 630 Vulkan S.r.l. - Development of a Digital Twin Framework for Battery and Fuel Cell-Powered Propulsion Systems in Maritime Vessels		DM 630 Vulkan S.r.l. - Development of a Digital Twin Framework for Battery and Fuel Cell-Powered Propulsion Systems in Maritime Vessels	Younger applicant prevails
F512069	72	DM 630 FIB S.p.A. - Analyses of batteries with advanced analytical techniques: from raw material to electrodes and cells		UNIPA - Carbon dot based-LEDs	
		UNIPA - Carbon dot based-LEDs			
		DM 630 UNITO/Centro Ricerche FIAT - Analysis and validation of metal anodes (Li) for solid state Li-ion cells			
		DM 630 Yanmar R&D Europe S.r.l.- Physical analysis and modelling for post-Li battery chemistries			

Winners with scholarships under **DM 629** and **DM 630** must proceed with online acceptance of the scholarship through the Apply procedure **no later than 25th September 2024**.

All candidates selected for a position must enroll online through the Apply procedure **from 8th October 2024 to 8th November 2024** and must make identification at the Ph.D. Unit from **18th October 2024 to 14th November 2024**.

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ELIGIBLE CANDIDATES

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F494246	75	DM 630 DANIELI&C OFFICINE MECCANICHE - Design of machines for the treatment, crushing, and recycling of ferrous and non-ferrous scrap			

Description of Notes field:

* Conditional admission: because the Master Degree is not yet acquired. The eventual enrollment to a PhD program could take place only if the Master Degree is achieved within **31st October 2024**. The failure of achievement by the deadline would result in the irrevocable loss of the right to enroll.

Torino, 19/09/2024

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