Politecnico di Torino

Nucleo Dottorato di Ricerca

Ranking list for admission to national PhD Programme with administrative seat at Politecnico di Torino

Materials, Sustainable Processes and Systems for the Energy Transition

39° Cycle

Total number of ordinary positions available: 32

Summary tab of scholarships available:

1	CNR - 2D thermoelectric materials for wearable electronic	Theme-bound scholarship
1	CNR - Sustainable materials for sodium-based battery	Theme-bound scholarship
1	DISAT - Water-based production of high energy lithium-ion cells	Theme-bound scholarship
1	IIT - ADVANCED and IN-OPERANDO characterization of catalysts for key reactions (CO2RR, CORR, HER, OER, ORR) in the energetic transition	Theme-bound scholarship
1	IIT - Development of low-dimensional material based light-driven nanoscale devices	Theme-bound scholarship
1	IIT - Innovative approaches for the production from renewable sources of high-quality bioactive fractions	Theme-bound scholarship
1	INRIM - Passive radiative emitters for daytime sub-ambient cooling	Theme-bound scholarship
1	MUR DM 117/ NOVAC - Energy storage materials and processes for supercapacitors	Theme-bound scholarship
1	MUR DM 117/GEMMATE - Design of photoelectrochemical devices for a direct transformation of sunlight and CO2 into chemicals for energy storage	Theme-bound scholarship
1	MUR DM 117/JEOL Spa/Università Roma La Sapienza - Electron diffraction and microscopy for the study of advanced materials for energy transition	Theme-bound scholarship
1	MUR DM 117/NEW CLEO - Development of protective coatings on structural steels for Lead Fast Reactor (LFR) applications	Theme-bound scholarship
1	MUR DM 117/NEWCLEO - Development and characterization of coatings for corrosion protection of nuclear fuel claddings in Lead Fast Reactor environment	Theme-bound scholarship
1	MUR DM 117/NEWCLEO - Development and characterizations of structural steels welds for Lead Fast Reactor (LFR) applications	Theme-bound scholarship

Nucleo Dottorato di Ricerca
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Ministero dell'Università e della Ricerca

Italiadomani
PIANO NAZIONALE DI RIPRESA E RESILIENZA

1	MUR DM 117/NEWCLEO - Development of advanced structural materials resistant to liquid lead corrosion for Lead Fast Reactor (LFR) applications	Theme-bound scholarship
1	MUR DM 117/POLLUTION - Development, functionalization and integration of MEMS devices in innovative analytical GCs	Theme-bound scholarship
1	MUR DM 117/VISHAY - Physical Models for spice simulation of wide band gap device	Theme-bound scholarship
1	MUR DM 117/VISHAY - Design criteria for Silicon and SiC power module based converters	Theme-bound scholarship
1	MUR DM 117/VISHAY - Designing and testing wide bandgap power devices to achieve higher reliability and ruggedness	Theme-bound scholarship
1	MUR DM 117/VISHAY - Models for evaluation and simulation of complex magnetic ferrite component for E_mobility	Theme-bound scholarship
1	MUR DM 118 - Advanced Gas Separation membranes for hydrogen technologies	Theme-bound scholarship
1	MUR DM 118 - Computational design of molecular solar thermal fuels	Theme-bound scholarship
1	MUR DM 118 - Electrochemical conversion of CO2 into added-value chemicals	Theme-bound scholarship
1	MUR DM 118 - Green hydrogen production with water splitting catalyzed by quantum materials	Theme-bound scholarship
1	MUR DM 118 - Innovative and sustainable semiconducting materials for ionizing radiation detection	Theme-bound scholarship
1	MUR DM 118 - Multiscale characterization of advanced materials and innovative devices for energy transition	Theme-bound scholarship
1	MUR DM 118 - Next-generation solar cells based on quantum materials	Theme-bound scholarship
1	MUR DM 118 - Protection against exposure to nanomaterials	Theme-bound scholarship
1	MUR DM 118 - Sustainable biocatalytic processes for waste valorization and production of new high value compounds	Theme-bound scholarship
1	MUR DM 118 - Sustainable unconventional materials for energy harvesting and sensing applications by integration of organic and calcogen radical dopant	Theme-bound scholarship
1	MUR DM 118 - Thermoplasmonic solar membrane distillation for seawater desalination	Theme-bound scholarship
1	MUR DM 118 - Utilization of oxygen generated by the electrolysis of water for hydrogen production	Theme-bound scholarship

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1	MUR DM117/AIZOON-Development and optimization of mechanical recycling processes of polyolefins aimed at achieving the requirements set by food-contact	Theme-bound scholarship

SHORTLISTED CANDIDATES

User	Score	Eligibility to scholarship with predefined research topic	Waiving right to scholar ship	Allocated scholarship	Notes
F532263	95	MUR DM 118 - Computational design of molecular solar thermal fuels	--	MUR DM 118 - Computational design of molecular solar thermal fuels	Conditional admission*
F531323	92.5	MUR DM 118 - Electrochemical conversion of CO2 into added-value chemicals MUR DM 118 - Advanced Gas Separation membranes for hydrogen technologies	--	MUR DM 118 - Advanced Gas Separation membranes for hydrogen technologies	
F537477	92	MUR DM 118 - Sustainable biocatalytic processes for waste valorization and production of new high value compounds IIT - Innovative approaches for the production from renewable sources of high-quality bioactive fractions	--	IIT - Innovative approaches for the production from renewable sources of high-quality bioactive fractions	
F537552	91	MUR DM 117/JEOL Spa/Università Roma La Sapienza - Electron diffraction and microscopy for the study of advanced materials for energy transition MUR DM 118 - Innovative and sustainable semiconducting materials for ionizing radiation detection CNR - 2D thermoelectric materials for wearable electronic	--	MUR DM 118 - Innovative and sustainable semiconducting materials for ionizing radiation detection	Conditional admission* Younger applicant prevails
F534800	91	IIT - Development of low-dimensional material based light-driven nanoscale devices	--	IIT - Development of low-dimensional material based light-driven nanoscale devices	Conditional admission* Younger applicant prevails
F535934	91	CNR - Sustainable materials for sodium-based battery DISAT - Water-based production of high energy lithium-ion cells MUR DM 117/ NOVAC - Energy storage materials and processes for supercapacitors		MUR DM 117/ NOVAC - Energy storage materials and processes for supercapacitors	
F257357	90	MUR DM 118 - Multiscale characterization of advanced materials and innovative devices for energy transition	--	MUR DM 117/NEW CLEO - Development of protective coatings on structural steels for	

User	Score	Eligibility to scholarship with predefined research topic	Waiving right to scholar ship	Allocated scholarship	Notes
		MUR DM 117/NEWCLEO - Development of advanced structural materials resistant to liquid lead corrosion for Lead Fast Reactor (LFR) applications MUR DM 117/NEW CLEO - Development of protective coatings on structural steels for Lead Fast Reactor (LFR) applications MUR DM 117/NEWCLEO - Development and characterization of coatings for corrosion protection of nuclear fuel claddings in Lead Fast Reactor environment MUR DM 117/NEWCLEO - Development and characterizations of structural steels welds for Lead Fast Reactor (LFR) applications		Lead Fast Reactor (LFR) applications	
F253513	88	DISAT - Water-based production of high energy lithium-ion cells	--	DISAT - Water-based production of high energy lithium-ion cells	
F537725	86	INRIM - Passive radiative emitters for daytime sub-ambient cooling	--	INRIM - Passive radiative emitters for daytime sub-ambient cooling	Conditional admission* Younger applicant prevails
F290494	86	MUR DM 118 - Sustainable biocatalytic processes for waste valorization and production of new high value compounds IIT - Innovative approaches for the production from renewable sources of high-quality bioactive fractions MUR DM117/AIZOON- Development and optimization of mechanical recycling processes of polyolefins aimed at achieving the requirements set by food-contact	--	MUR DM 118 - Sustainable biocatalytic processes for waste valorization and production of new high value compounds	Younger applicant prevails
F490081	86	CNR - 2D thermoelectric materials for wearable electronic	--	CNR - 2D thermoelectric materials for wearable electronic	Younger applicant prevails
F534855	86	MUR DM 118 - Thermoplasmonic solar membrane distillation for seawater desalination	--	MUR DM 118 - Green hydrogen production with water splitting catalyzed by quantum materials	

User	Score	Eligibility to scholarship with predefined research topic	Waiving right to scholar ship	Allocated scholarship	Notes
		MUR DM 118 - Next-generation solar cells based on quantum materials MUR DM 118 - Protection against exposure to nanomaterials MUR DM 118 - Green hydrogen production with water splitting catalyzed by quantum materials			
F538000	85	MUR DM 118 - Next-generation solar cells based on quantum materials MUR DM 118 - Green hydrogen production with water splitting catalyzed by quantum materials MUR DM 117/GEMMATE - Design of photoelectrochemical devices for a direct transformation of sunlight and CO2 into chemicals for energy storage	--	MUR DM 117/GEMMATE - Design of photoelectrochemical devices for a direct transformation of sunlight and CO2 into chemicals for energy storage	
F531879	84	MUR DM 118 - Thermoplasmonic solar membrane distillation for seawater desalination MUR DM 118 - Next-generation solar cells based on quantum materials MUR DM 118 - Protection against exposure to nanomaterials MUR DM 118 - Green hydrogen production with water splitting catalyzed by quantum materials	--	MUR DM 118 - Thermoplasmonic solar membrane distillation for seawater desalination	Conditional admission*
F534557	83.5	MUR DM 118 - Electrochemical conversion of CO2 into added-value chemicals	--	MUR DM 118 - Electrochemical conversion of CO2 into added-value chemicals	Conditional admission*
F537276	83	CNR - Sustainable materials for sodium-based battery DISAT - Water-based production of high energy lithium-ion cells	--	CNR - Sustainable materials for sodium-based battery	
F536848	82	MUR DM 117/NEWCLEO - Development of advanced structural materials resistant to liquid lead corrosion for Lead Fast Reactor (LFR) applications MUR DM 117/NEW CLEO - Development of protective coatings on structural steels for	--	MUR DM 117/NEWCLEO - Development and characterization of coatings for corrosion protection of nuclear fuel claddings in Lead Fast Reactor environment	Younger applicant prevails

User	Score	Eligibility to scholarship with predefined research topic	Waiving right to scholar ship	Allocated scholarship	Notes
		Lead Fast Reactor (LFR) applications MUR DM 117/NEWCLEO - Development and characterization of coatings for corrosion protection of nuclear fuel claddings in Lead Fast Reactor environment MUR DM 117/NEWCLEO - Development and characterizations of structural steels welds for Lead Fast Reactor (LFR) applications			
F532182	82	CNR - Sustainable materials for sodium-based battery MUR DM 118 - Electrochemical conversion of CO2 into added-value chemicals IIT - ADVANCED and IN-OPERANDO characterization of catalysts for key reactions (CO2RR, CORR, HER, OER, ORR) in the energetic transition DISAT - Water-based production of high energy lithium-ion cells MUR DM 117/ NOVAC - Energy storage materials and processes for supercapacitors	--	IIT - ADVANCED and IN-OPERANDO characterization of catalysts for key reactions (CO2RR, CORR, HER, OER, ORR) in the energetic transition	
F534928	81.5	MUR DM 117/POLLUTION - Development, functionalization and integration of MEMS devices in innovative analytical GCs	--	MUR DM 117/POLLUTION - Development, functionalization and integration of MEMS devices in innovative analytical GCs	
F536792	77	MUR DM 118 - Utilization of oxygen generated by the electrolysis of water for hydrogen production MUR DM 118 - Next-generation solar cells based on quantum materials MUR DM 118 - Green hydrogen production with water splitting catalyzed by quantum materials	--	MUR DM 118 - Utilization of oxygen generated by the electrolysis of water for hydrogen production	
F537873	73.5	MUR DM 118 - Sustainable unconventional materials for energy harvesting and sensing applications by integration of organic and calcogen radical dopant MUR DM 118 - Next-generation	--	MUR DM 118 - Next-generation solar cells based on quantum materials	Conditional admission* Younger applicant prevails

User	Score	Eligibility to scholarship with predefined research topic	Waiving right to scholar ship	Allocated scholarship	Notes
		solar cells based on quantum materials MUR DM 118 - Protection against exposure to nanomaterials MUR DM 118 - Green hydrogen production with water splitting catalyzed by quantum materials MUR DM 117/GEMMATE - Design of photoelectrochemical devices for a direct transformation of sunlight and CO2 into chemicals for energy storage			
F534813	73.5	MUR DM 117/JEOL Spa/Università Roma La Sapienza - Electron diffraction and microscopy for the study of advanced materials for energy transition IIT - ADVANCED and IN-OPERANDO characterization of catalysts for key reactions (CO2RR, CORR, HER, OER, ORR) in the energetic transition	--	MUR DM 117/JEOL Spa/Università Roma La Sapienza - Electron diffraction and microscopy for the study of advanced materials for energy transition	Conditional admission*
F526560	71	MUR DM 117/JEOL Spa/Università Roma La Sapienza - Electron diffraction and microscopy for the study of advanced materials for energy transition MUR DM 118 - Multiscale characterization of advanced materials and innovative devices for energy transition MUR DM 117/ NOVAC - Energy storage materials and processes for supercapacitors	--	MUR DM 118 - Multiscale characterization of advanced materials and innovative devices for energy transition	

Candidates selected for a position, who have already met all admission requirements (see art. 9, paragraph 1 of the call for applications) as of 30th September 2023, must enroll online through the Apply procedure **from 2nd October 2023 to 8th October 2023** and must make identification at the Ph.D. Programmes Hub from **9th October to 20th October 2023**.

Candidates selected for a position, who meet all the admission requirements (see art. 9, paragraph 1 of the call for applications) on 31st October 2023, must enroll online through the Apply procedure **from 2nd November 2023 to 8th November 2023** and must make identification at the Ph.D. Programmes Hub from **9th November to 15th November 2023**.

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Applicants admitted to a Ph.D. programme with a scholarship pursuant to **Ministerial Decree no. 117** and **Ministerial Decree no. 118** are required to enroll according to the deadlines that will be communicated by the Ph.D. Programmes Hub directly to the interested, in order to fulfil the obligations provided by the above-mentioned Decrees.

ELIGIBLE CANDIDATES

User	Score	Eligibility to Scholarship with predefined research topic	Waiving right to scholarship	Allocated scholarship	Notes
F537935	84	MUR DM 118 - Computational design of molecular solar thermal fuels	--	--	
F522859	83	CNR - 2D thermoelectric materials for wearable electronic	--	--	
F456356	81	MUR DM 118 - Innovative and sustainable semiconducting materials for ionizing radiation detection MUR DM 118 - Electrochemical conversion of CO2 into added-value chemicals	--	--	
F536874	74	IIT - Development of low-dimensional material based light-driven nanoscale devices MUR DM 117/GEMMATE - Design of photoelectrochemical devices for a direct transformation of sunlight and CO2 into chemicals for energy storage	--	--	
F494246	73	MUR DM 117/GEMMATE - Design of photoelectrochemical devices for a direct transformation of sunlight and CO2 into chemicals for energy storage	--	--	Conditional admission*
F474134	72	MUR DM 117/ NOVAC - Energy storage materials and processes for supercapacitors	--	--	Conditional admission* Younger applicant prevails
F534854	72	MUR DM 117/JEOL Spa/Università Roma La Sapienza - Electron diffraction and microscopy for the study of advanced materials for energy transition	--	--	
F328748	70	INRIM - Passive radiative emitters for daytime sub-ambient cooling MUR DM 118 - Innovative and sustainable semiconducting materials for ionizing radiation detection	--		

Description of Notes field:

* Conditional admission: because the Master Degree is not yet acquired. The eventual enrolment to a PhD program could take place only if the Master Degree is achieved within **31st October 2023**. The failure of achievement by the deadline would result in the irrevocable loss of the right to enrol.

Torino, 26/09/2023

SV/cg

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