



**Politecnico
di Torino**

Nucleo
Dottorato di Ricerca

Approvazione atti concorso ammissione al
Dottorato di Ricerca in “Energetica” (XXXIX Ciclo) – Seconda sessione

IL RETTORE

- Vista la Legge 3 luglio 1998, n. 210, con particolare riferimento all’art. 4 e s.m.i.;
- Visto il Decreto Ministeriale 14 dicembre 2021, n. 226;
- Visto il D.R. n. 86 del 31 gennaio 2023 con cui è stato bandito il concorso per l’ammissione ai corsi di Dottorato di Ricerca del Politecnico di Torino (XXXIX Ciclo) e successivamente modificato con D.R. n. 287 del 28 marzo 2023;
- Visto il D.R. n. 297 del 30 marzo 2023 con cui è stata nominata la Commissione Giudicatrice d’Ateneo per gli esami di accesso per i Dottorati di Ricerca (XXXIX Ciclo), incaricata della verifica dei requisiti di ammissione per la partecipazione al concorso da parte dei candidati, successivamente modificata con D.R. n. 775 del 24 luglio 2023;
- Visti gli atti relativi alla verifica dei requisiti di ammissione per la partecipazione al concorso (XXXIX Ciclo) – seconda sessione – da parte dei candidati effettuata dalla Commissione Giudicatrice d’Ateneo ed al relativo esito;
- Visto il D.R. n. 296 del 30 marzo 2023 con cui è stata nominata la Commissione Giudicatrice del concorso per l’ammissione al Dottorato di Ricerca in “Energetica” (XXXIX Ciclo);
- Visti gli atti relativi alla valutazione comparativa dei candidati al concorso del Dottorato di Ricerca in “Energetica” (XXXIX Ciclo) – seconda sessione – formulati dalla Commissione Giudicatrice;
- Riconosciuta la regolarità del procedimento concorsuale e dei relativi atti;

D E C R E T A

Art. 1

di approvare gli atti del concorso e la graduatoria per l’ammissione al Dottorato di Ricerca in “Energetica” (XXXIX Ciclo) – seconda sessione – per la copertura dei seguenti posti:

Posti ordinari: 48

Borse di studio disponibili:

4	Ateneo	Borse a tematica libera
1	ALSTOM - Hydrogen Fuel Cell propulsion trains Traction batteries: new horizons of CBM (Condition Based Maintenance)	Borsa a tematica vincolata
1	ALSTOM - Hydrogen trains: adaptive algorithms for section consumption forecast	Borsa a tematica vincolata
1	ALSTOM - The new challenge of hydrogen: from production to use and its performance	Borsa a tematica vincolata
1	DENERG - Modelling for safe hydrogen injection and management for European gas network resilience and decarbonization	Borsa a tematica vincolata
1	DENERG - Sustainable production routes for hard-to-abate industries	Borsa a tematica vincolata

Nucleo Dottorato di Ricerca
Politecnico di Torino - Corso Duca degli Abruzzi 24, 10129 - Torino, Italia
Tel. +39 011 090 6095
scudo@polito.it - www.polito.it





**Politecnico
di Torino**

Nucleo
Dottorato di Ricerca

1	ENEA - Detailed in-operando analysis of SOFC operating with bio-syngas: evaluation of the simultaneous impacts of organic and inorganic contaminants	Borsa a tematica vincolata
1	ENEA - Multi-physics model and energy performance analysis of high pressure water electrolysis systems with anionic polymeric membrane technology	Borsa a tematica vincolata
1	ENEA - Upscaling e ottimizzazione tecno-economica di tecnologie di upgrading e metanazione del biogas	Borsa a tematica vincolata
1	EURAC - Assessing the impact of AI-based intelligent services for enhancing the smartness of next generation grid-interactive buildings	Borsa a tematica vincolata
1	FBK - Proton conductive ceramic cells for FC/EL and for compression / separation (N ₂ , cracking NH ₃ , H ₂ /H ₂ O)	Borsa a tematica vincolata
1	INRiM - Construction and metrological validation of digital models (digital twins) for materials and energy storage devices	Borsa a tematica vincolata
1	MUR DM 117 - Analysis & assessment of the acoustic quality at the operator's position on off-road vehicles (tractors, construction site machines, buses, trucks)	Borsa a tematica vincolata
1	MUR DM 117/AddFor - Innovative solutions for the smart control of electrified Connected and Autonomous Vehicles (CAVs)	Borsa a tematica vincolata
1	MUR DM 117/Cogne Acciai - Optimization of energy consumption and carbon footprint of industrial processes for automotive steel components	Borsa a tematica vincolata
1	MUR DM 117/Convergent Science - Flex-fuel IC engine modeling and optimization for carbon-free mobility	Borsa a tematica vincolata
1	MUR DM 117/Edison - Technical and economic assessment of Long-Duration Energy Storage (LDES) options for the energy markets	Borsa a tematica vincolata
1	MUR DM 117/ENI - Design and optimization of Triply Periodic Minimal Surfaces as heat sinks for the cooling of high heat-flux components in fusion reactors	Borsa a tematica vincolata
1	MUR DM 117/Ethos Energy - Design and optimization of gas turbine components for safe use of hydrogen/methane fuel blends	Borsa a tematica vincolata
1	MUR DM 117/GI - Advanced Materials, Manufacturing Techniques, and Lifecycle Assessment to Reduce Levelized Cost of Green Hydrogen	Borsa a tematica vincolata
1	MUR DM 117/GI - CFD modeling, design and 50W AEM test stack	Borsa a tematica vincolata
1	MUR DM 117/GI - Enhancing the energy efficiency of solar-water purification technology for green hydrogen production	Borsa a tematica vincolata
1	MUR DM 117/GI - Integration of solar-water purification technologies and electrochemical technologies for sustainable fuels and water purification	Borsa a tematica vincolata
1	MUR DM 117/Morfo Design - Virtual Engine Model Development for Multi-Scale High-Fidelity Simulation of Component and Fluid/Structure Interaction	Borsa a tematica vincolata
1	MUR DM 117/Newcleo - Development of a subchannel code for full-core thermal-hydraulic analysis of lead-cooled fast reactors	Borsa a tematica vincolata
1	MUR DM 117/Newcleo - Experimental and numerical study of a bayonet tube heat exchanger for decay heat removal in LFR	Borsa a tematica vincolata
1	MUR DM 117/Punch - NUMERICAL INVESTIGATION OF H ₂ -AIR MIXTURE FORMATION IN INNOVATIVE GREEN-HYDROGEN DIRECT-INJECTION ENGINES	Borsa a tematica vincolata
1	MUR DM 117/Stellantis - Analysis on components/systems and LCA on cells for EV batteries	Borsa a tematica vincolata
1	MUR DM 117/Stellantis - Modeling and experimental validation on test bench of innovative PEMFC stack for mobility applications	Borsa a tematica vincolata
1	MUR DM 117/Stellantis - Multiscale model for innovative battery cells (Li-metal and LiS cells)	Borsa a tematica vincolata
1	MUR DM 117/Vulkan - System-level analysis and energy management strategy design for marine hybrid powertrains	Borsa a tematica vincolata
1	MUR DM 117/Westinghouse - Advanced Uncertainty Quantification and Propagation Analysis to Support Lead Fast Reactor Development	Borsa a tematica vincolata

Nucleo Dottorato di Ricerca

Politecnico di Torino - Corso Duca degli Abruzzi 24, 10129 - Torino, Italia

Tel. +39 011 090 6095

scudo@polito.it - www.polito.it





1	MUR DM 118 - Design and multi-physics modeling of 20 T superconducting magnets for particle accelerators and for fusion machines	Borsa a tematica vincolata
1	MUR DM 118 - Development of Enabling Technologies for Rotating Detonation Engines for a Greener Propulsion	Borsa a tematica vincolata
1	MUR DM 118 - Development of a digital twin for the operation of MW-class gyrotrons for plasma heating and current drive in fusion reactors	Borsa a tematica vincolata
1	MUR DM 118 - Development of self-consistent edge-core coupled transport models for impurities in Tokamaks	Borsa a tematica vincolata
1	MUR DM 118 - H2-based power units for zero-equivalent mobility solutions	Borsa a tematica vincolata
1	MUR DM 118 - Modeling Post-Carbon Cities and Renewable Energy Communities	Borsa a tematica vincolata
1	MUR DM 118 - Modelling of laser-matter interaction for the sustainable energy production by nuclear fusion	Borsa a tematica vincolata
1	MUR DM 118 ex 351 - Tritium Technologies for the SORGENTINA-RF Facility	Borsa a tematica vincolata
1	PNRR - Innovative processes and materials for long-term thermal energy storage	Borsa a tematica vincolata
1	PNRR - Techno-economic and environmental analysis of the role of low-carbon fuels in the design of future energy systems	Borsa a tematica vincolata
1	Università Tor Vergata/Denerg - Use of Artificial Intelligence Techniques for the Optimization of Innovative Solar Cell Production	Borsa a tematica vincolata

Art. 2

CANDIDATI VINCITORI

User	Nominativo	Punteggio	Idoneità Borse Vincolate	Rinuncia borse	Assegnato	Note
F524530	LI CASTRI GINEVRA	85	---	---	Ateneo	---
F520497	RAGNATELLA SIMONE	84,8	MUR DM 118 - Development of Enabling Technologies for Rotating Detonation Engines for a Greener Propulsion	---	MUR DM 118 - Development of Enabling Technologies for Rotating Detonation Engines for a Greener Propulsion	Ammissione con riserva *
F446164	PIGLIA LORENZO GIACOMO	84,1	MUR DM 117/Vulkan - System-level analysis and energy management strategy design for marine hybrid powertrains	---	MUR DM 117/Vulkan - System-level analysis and energy management strategy design for marine hybrid powertrains	Ammissione con riserva *
F403178	CATERINO DANILO	83,6	MUR DM 117/Newcleo - Experimental and numerical study of a bayonet tube heat exchanger for decay heat removal in LFR	---	MUR DM 117/Newcleo - Experimental and numerical study of a bayonet tube heat exchanger for decay heat removal in LFR	---
F460199	MAGGIULLI MARTINA	83,1	EURAC - Assessing the impact of AI-based intelligent services for enhancing the smartness of next generation grid- interactive buildings	---	EURAC - Assessing the impact of AI-based intelligent services for enhancing the smartness of next generation grid- interactive buildings	---

Nucleo Dottorato di Ricerca

Politecnico di Torino - Corso Duca degli Abruzzi 24, 10129 - Torino, Italia

Tel. +39 011 090 6095

scudo@polito.it - www.polito.it





User	Nominativo	Punteggio	Idoneità Borse Vincolate	Rinuncia borse	Assegnato	Note
F463267	MORANTI ANDREA	82,8	FBK - Proton conductive ceramic cells for FC/EL and for compression / separation (N2, cracking NH3, H2/H2O)	---	FBK - Proton conductive ceramic cells for FC/EL and for compression / separation (N2, cracking NH3, H2/H2O)	Ammissione con riserva *
F513283	BRAY ELISABETTA	82,3	MUR DM 118 - Development of self-consistent edge-core coupled transport models for impurities in Tokamaks	---	MUR DM 118 - Development of self-consistent edge-core coupled transport models for impurities in Tokamaks	Ammissione con riserva *
F395926	D'ADDAZIO MARIKA	80,1	MUR DM 118 - Design and multi-physics modeling of 20 T superconducting magnets for particle accelerators and for fusion machines	---	MUR DM 118 - Design and multi-physics modeling of 20 T superconducting magnets for particle accelerators and for fusion machines	---
F462755	BARLETTA GIULIO	79,3	Università Tor Vergata/DenerG - Use of Artificial Intelligence Techniques for the Optimization of Innovative Solar Cell Production	---	Università Tor Vergata/DenerG - Use of Artificial Intelligence Techniques for the Optimization of Innovative Solar Cell Production	Ammissione con riserva *
F423109	DI FRANCESCO LUISA	78,7	DENERG - Modelling for safe hydrogen injection and management for European gas network resilience and decarbonization	---	DENERG - Modelling for safe hydrogen injection and management for European gas network resilience and decarbonization	Ammissione con riserva *
F531711	NOVARESE ELIA	78,6	MUR DM 118 - Development of a digital twin for the operation of MW-class gyrotrons for plasma heating and current drive in fusion reactors	---	MUR DM 118 - Development of a digital twin for the operation of MW-class gyrotrons for plasma heating and current drive in fusion reactors	Ammissione con riserva * **
F532963	CONCARO CLAUDIA	77,4	---	---	Ateneo	---
F402125	SCOPELLITI ALEX	77,1	MUR DM 118 - H2-based power units for zero-equivalent mobility solutions	---	MUR DM 118 - H2-based power units for zero-equivalent mobility solutions	Ammissione con riserva *
F246309	CROBU SERENA	76,3	MUR DM 118 ex 351 - Tritium Technologies for the SORGENTINA-RF Facility	---	MUR DM 118 ex 351 - Tritium Technologies for the SORGENTINA-RF Facility	---
F423189	STOLTE MARCEL	76	MUR DM 117/Edison - Technical and economic assessment of Long-Duration Energy Storage (LDES) options for the energy markets	---	MUR DM 117/Edison - Technical and economic assessment of Long-Duration Energy Storage (LDES) options for the energy markets	Ammissione con riserva *

Nucleo Dottorato di Ricerca

Politecnico di Torino - Corso Duca degli Abruzzi 24, 10129 - Torino, Italia

Tel. +39 011 090 6095

scudo@polito.it - www.polito.it





**Politecnico
di Torino**

Nucleo
Dottorato di Ricerca

User	Nominativo	Punteggio	Idoneità Borse Vincolate	Rinuncia borse	Assegnato	Note
F505072	MOROSANU STEFAN	75,8	MUR DM 117/GI - Enhancing the energy efficiency of solar-water purification technology for green hydrogen production MUR DM 117/GI - Integration of solar-water purification technologies and electrochemical technologies for sustainable fuels and water purification	---	MUR DM 117/GI - Enhancing the energy efficiency of solar-water purification technology for green hydrogen production	---
F531263	GENNARO LAURA	75,7	ENEA - Multi-physics model and energy performance analysis of high pressure water electrolysis systems with anionic polymeric membrane technology	---	ENEA - Multi-physics model and energy performance analysis of high pressure water electrolysis systems with anionic polymeric membrane technology	---
F528131	ZURZOLO ANTONIO	75,5	MUR DM 118 - Modelling of laser-matter interaction for the sustainable energy production by nuclear fusion	---	MUR DM 118 - Modelling of laser-matter interaction for the sustainable energy production by nuclear fusion	Ammissione con riserva *
F525899	PERA LUCIA	75,4	ENEA - Detailed in-operando analysis of SOFC operating with bio-syngas: evaluation of the simultaneous impacts of organic and inorganic contaminants	---	ENEA - Detailed in-operando analysis of SOFC operating with bio-syngas: evaluation of the simultaneous impacts of organic and inorganic contaminants	Precede per minore età Ammissione con riserva *
F378172	SACCHI GIAMPIERO	75,4	ENEA - Upscaling e ottimizzazione tecnologica di tecnologie di upgrading e metanazione del biogas	---	ENEA - Upscaling e ottimizzazione tecnologica di tecnologie di upgrading e metanazione del biogas	---
F531140	RIORDA ALESSIO	75,3	DENERG - Sustainable production routes for hard-to-abate industries	---	DENERG - Sustainable production routes for hard-to-abate industries	Precede per minore età Ammissione con riserva *
F513302	ZAYER KABEH KAVEH	75,3	---	---	Ateneo	---
F380217	DI GENNARO SERGIO	75	---	---	Ateneo	---
F509694	ORLANDO MARCO	74,5	---	---	---	Ammissione con riserva *
F528843	DE BETTIN FEDERICO	74,3	---	---	---	---

Nucleo Dottorato di Ricerca
Politecnico di Torino - Corso Duca degli Abruzzi 24, 10129 - Torino, Italia
Tel. +39 011 090 6095
scudo@polito.it - www.polito.it





User	Nominativo	Punteggio	Idoneità Borse Vincolate	Rinuncia borse	Assegnato	Note
F463783	MAGNINO ALESSANDRO	72,8	PNRR - Techno-economic and environmental analysis of the role of low-carbon fuels in the design of future energy systems	---	PNRR - Techno-economic and environmental analysis of the role of low-carbon fuels in the design of future energy systems	Ammissione con riserva *
F462829	QUAMORI TANZI ALESSIO	69,1	DM 117/ENI - Design and optimization of Triply Periodic Minimal Surfaces as heat sinks for the cooling of high heat-flux components in fusion reactors	---	DM 117/ENI - Design and optimization of Triply Periodic Minimal Surfaces as heat sinks for the cooling of high heat-flux components in fusion reactors	Ammissione con riserva *
F505537	MOHAMMAD HOSSEINZADEH GOLABCHI MARZIEH	67,5	MUR DM 117/Stellantis - Analysis on components/systems and LCA on cells for EV batteries	---	MUR DM 117/Stellantis - Analysis on components/systems and LCA on cells for EV batteries	---
F526186	MONDELLO ALESSIO	65,8	PNRR - Innovative processes and materials for long-term thermal energy storage	---	PNRR - Innovative processes and materials for long-term thermal energy storage	---
F525301	TODDE EDOARDO	65,2	MUR DM 117/AddFor - Innovative solutions for the smart control of electrified Connected and Autonomous Vehicles (CAVs)	---	MUR DM 117/AddFor - Innovative solutions for the smart control of electrified Connected and Autonomous Vehicles (CAVs)	---
F446291	BARONETTO CARMELO	65	MUR DM 117/Punch - NUMERICAL INVESTIGATION OF H2-AIR MIXTURE FORMATION IN INNOVATIVE GREEN-HYDROGEN DIRECT-INJECTION ENGINES	---	MUR DM 117/Punch - NUMERICAL INVESTIGATION OF H2-AIR MIXTURE FORMATION IN INNOVATIVE GREEN-HYDROGEN DIRECT-INJECTION ENGINES	---
F530442	VITA CHRISTIAN	63,4	MUR DM 117/Westinghouse - Advanced Uncertainty Quantification and Propagation Analysis to Support Lead Fast Reactor Development	---	MUR DM 117/Westinghouse - Advanced Uncertainty Quantification and Propagation Analysis to Support Lead Fast Reactor Development	Ammissione con riserva *
F466311	PEYRANI GABRIELE	60	ALSTOM - The new challenge of hydrogen: from production to use and its performance	---	ALSTOM - The new challenge of hydrogen: from production to use and its performance	Ammissione con riserva *

CANDIDATI IDONEI

Nessuno/a.



**Politecnico
di Torino**

Nucleo
Dottorato di Ricerca

* Ammissione sotto condizione in quanto il titolo di II livello non risulta ancora acquisito. L'eventuale immatricolazione al dottorato potrà avvenire solo se tale titolo risulterà acquisito entro il **31/10/2023**, pena l'irrevocabile perdita del diritto di immatricolazione.

** Ammissione sotto condizione in quanto la certificazione di inglese necessaria per l'iscrizione al dottorato di ricerca non risulta ancora acquisito. L'eventuale immatricolazione al dottorato potrà avvenire solo se il candidato presenterà, **entro e non oltre il 31/10/2023**, uno dei certificati indicati dall'art. 6, comma 1, lettera b) del bando di concorso, pena l'irrevocabile perdita del diritto di immatricolazione.

Art. 3

I candidati di cui sopra sono ammessi al Corso di Dottorato di Ricerca in "Energetica" (XXXIX Ciclo) – seconda sessione – secondo l'ordine della graduatoria sopraindicata, fino alla copertura del numero dei posti e nel rispetto degli articoli 11, 12 e 13 del bando di concorso.

IL RETTORE
Prof. Guido Saracco

SV/dp