



Ranking List for the PhD program in  
**Materials Science and Technology**  
39<sup>th</sup> Cycle  
Second session

Total number of ordinary positions available in second session: 24

Total number of positions reserved to boursaries of Governments or by national or foreign public bodies, available in second session: 0

Summary tab of scholarships available in second session:

|   |   |  |
|---|---|--|
| 1 | University scholarship - Advanced Electrode/Electrolyte Materials for Next-Generation Energy Storage  | Scholarship with predefined research topic |
| 1 | University scholarship - Cement-based composite materials for structural, functional, and environmental applications                        | Scholarship with predefined research topic |
| 1 | University scholarship - Design and development of advanced ceramics by Digital Light Processing for sensing and environmental applications | Scholarship with predefined research topic |
| 1 | University scholarship - Design bio-based photocurable ceramic slurry for 3D printing   | Scholarship with predefined research topic |
| 1 | University scholarship - Micro and nanostructured cellulose for sustainable polymeric composites  | Scholarship with predefined research topic |
| 1 | University scholarship - Surface coating and functionalization of implants with molecules featuring a multifunctional action                | Scholarship with predefined research topic |
| 1 | DISAT - Lithium protection and use for ammonia production and energy storage systems  | Scholarship with predefined research topic |
| 1 | DISAT - Production of Janus 2D material inks for energy conversion applications   | Scholarship with predefined research topic |
| 1 | ENI - Additive manufacturing and integration for the development of reactors  | Scholarship with predefined research topic |
| 1 | IIT - Investigation of Safe and Sustainable Electrode and Electrolyte Materials for Next-Generation Energy Storage                          | Scholarship with predefined research topic |
| 1 | INRIM - Advanced Metrology for Materials Science and Technology   | Scholarship with predefined research topic |
| 1 | MUR DM 117/CIM 4.0 - Energy efficiency of additive manufacturing technologies   | Scholarship with predefined research topic |
| 1 | MUR DM 117/ENI - Plasmon-enhanced photocatalytic reduction of CO <sub>2</sub> by hybrid catalysts   | Scholarship with predefined research topic |
| 1 | MUR DM 117/Easyrain - Sviluppo di formulazioni per consentire il recupero del grip di pneumatici in presenza di fondi a bassa aderenza      | Scholarship with predefined research topic |
| 1 | MUR DM 117/Stellantis - General context Energy-efficient magnets for automotive applications  | Scholarship with predefined research topic |
| 1 | MUR DM 118 - Enhancing Electrochemical Applications by Microporous Polymer-Based Ion Exchange Membranes                                     | Scholarship with predefined research topic |

Nucleo Dottorato di Ricerca

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

Tel. +39 011 090 6095

[scudo@polito.it](mailto:scudo@polito.it) - [www.polito.it](http://www.polito.it)





|   |   |  |
|---|---|--|
| 1 | PNRR - 3D printing of sustainable polymer-ceramic photocurable resins                     | Scholarship with predefined research topic |
| 1 | PNRR - Electrode Materials for Post-Lithium batteries                                     | Scholarship with predefined research topic |
| 1 | PNRR - Innovative Materials and Lightweighting for Sustainable Mobility                   | Scholarship with predefined research topic |
| 1 | PNRR - Innovative photocurable formulations for additive manufacturing applications       | Scholarship with predefined research topic |
| 1 | PNRR - Sustainable and recyclable polymeric thermosets                                    | Scholarship with predefined research topic |
| 1 | PNRR/PNC Salute - 3D barrier models: bioactive constructs for biological twin development | Scholarship with predefined research topic |
| 1 | PNRR/PNC Salute - 3D bioprinting: organ-on-a-chip models for drug screening               | Scholarship with predefined research topic |

**Number of positions without scholarship available for the second session: 1**

### SHORTLISTED CANDIDATES

| User    | Score | Eligibility to scholarship with predefined research topic  | Waiving right to scholarship | Allocated scholarship  | Notes                       |
|---------|-------|--|------------------------------|--|-----------------------------|
| F499608 | 93,4  | MUR DM 117/Easyrain - Sviluppo di formulazioni per consentire il recupero del grip di pneumatici in presenza di fondi a bassa aderenza<br><br>PNRR - 3D printing of sustainable polymer-ceramic photocurable resins<br><br>IIT - Investigation of Safe and Sustainable Electrode and Electrolyte Materials for Next-Generation Energy Storage<br><br>MUR DM 117/CIM 4.0 - Energy efficiency of additive manufacturing technologies | ---                          | MUR DM 117/Easyrain - Sviluppo di formulazioni per consentire il recupero del grip di pneumatici in presenza di fondi a bassa aderenza | ---                         |
| F530603 | 87,2  | MUR DM 117/ENI - Plasmon-enhanced photocatalytic reduction of CO2 by hybrid catalysts  | ---                          | MUR DM 117/ENI - Plasmon-enhanced photocatalytic reduction of CO2 by hybrid catalysts  | ---                         |
| F500279 | 86,3  | Ateneo - Advanced Electrode/Electrolyte Materials for Next-Generation Energy Storage   | ---                          | Ateneo - Advanced Electrode/Electrolyte Materials for Next-Generation Energy Storage   | Conditional admission **    |
| F531490 | 85,8  | INRIM - Advanced Metrology for Materials Science and Technology  | ---                          | INRIM - Advanced Metrology for Materials Science and Technology  | Conditional admission *     |
| F531279 | 85,7  | Ateneo - Design and development of advanced ceramics by Digital Light Processing for sensing and environmental applications  | ---                          | Ateneo - Design and development of advanced ceramics by Digital Light Processing for sensing and environmental applications            | Conditional admission * *** |



| User    | Score | Eligibility to scholarship with predefined research topic   | Waiving right to scholarship | Allocated scholarship  | Notes                      |
|---------|-------|---|------------------------------|--|----------------------------|
| F530090 | 84,5  | PNRR - Innovative Materials and Lightweighting for Sustainable Mobility<br><br>MUR DM 117/CIM 4.0 - Energy efficiency of additive manufacturing technologies<br><br>ENI - Additive manufacturing and integration for the development of reactors  | ---                          | MUR DM 117/CIM 4.0 - Energy efficiency of additive manufacturing technologies                                | ---                        |
| F528898 | 83,9  | DISAT - Production of Janus 2D material inks for energy conversion applications   | ---                          | DISAT - Production of Janus 2D material inks for energy conversion applications                              | ---                        |
| F531882 | 83,2  | Ateneo - Advanced Electrode/Electrolyte Materials for Next-Generation Energy Storage<br><br>Ateneo - Surface coating and functionalization of implants with molecules featuring a multifunctional action<br><br>PNRR - Innovative Materials and Lightweighting for Sustainable Mobility | ---                          | PNRR - Innovative Materials and Lightweighting for Sustainable Mobility                                      | ---                        |
| F517532 | 82,6  | Ateneo - Design bio-based photocurable ceramic slurry for 3D printing   | ---                          | Ateneo - Design bio-based photocurable ceramic slurry for 3D printing  | ---                        |
| F530519 | 82,4  | Ateneo - Surface coating and functionalization of implants with molecules featuring a multifunctional action<br><br>PNRR - Innovative Materials and Lightweighting for Sustainable Mobility<br><br>ENI - Additive manufacturing and integration for the development of reactors         | ---                          | ENI - Additive manufacturing and integration for the development of reactors                                 | ---                        |
| F530310 | 81,3  | Ateneo - Surface coating and functionalization of implants with molecules featuring a multifunctional action  | ---                          | Ateneo - Surface coating and functionalization of implants with molecules featuring a multifunctional action | Conditional admission *    |
| F532005 | 81,2  | PNRR - 3D printing of sustainable polymer-ceramic photocurable resins   | ---                          | PNRR - 3D printing of sustainable polymer-ceramic photocurable resins  | Conditional admission * ** |
| F530184 | 79,8  | PNRR - Innovative photocurable formulations for additive manufacturing applications   | ---                          | PNRR - Innovative photocurable formulations for additive manufacturing applications                          | Conditional admission **   |
| F526050 | 79    | Ateneo - Micro and nanostructured cellulose for sustainable polymeric composites  | ---                          | Ateneo - Micro and nanostructured cellulose for sustainable polymeric composites                             | Conditional admission **   |



| User    | Score | Eligibility to scholarship with predefined research topic   | Waiving right to scholarship | Allocated scholarship  | Notes  |
|---------|-------|---|------------------------------|--|--|
| F530929 | 78,8  | Ateneo - Cement-based composite materials for structural, functional, and environmental applications  | ---                          | Ateneo - Cement-based composite materials for structural, functional, and environmental applications               | Conditional admission **                                 |
| F395907 | 78,3  | PNRR - Sustainable and recyclable polymeric thermosets  | ---                          | PNRR - Sustainable and recyclable polymeric thermosets   | Conditional admission *                                  |
| F532352 | 77,9  | IIT - Investigation of Safe and Sustainable Electrode and Electrolyte Materials for Next-Generation Energy Storage  | ---                          | IIT - Investigation of Safe and Sustainable Electrode and Electrolyte Materials for Next-Generation Energy Storage | Younger applicant prevails<br>Conditional admission * ** |
| F530084 | 77,9  | DISAT - Lithium protection and use for ammonia production and energy storage systems  | ---                          | DISAT - Lithium protection and use for ammonia production and energy storage systems                               | Younger applicant prevails<br>Conditional admission **   |
| F448305 | 77,9  | Ateneo - Cement-based composite materials for structural, functional, and environmental applications  | ---                          | ---  | ---  |
| F531988 | 77,2  | DISAT - Production of Janus 2D material inks for energy conversion applications<br>Ateneo - Advanced Electrode/Electrolyte Materials for Next-Generation Energy Storage<br>MUR DM 117/ENI - Plasmon-enhanced photocatalytic reduction of CO2 by hybrid catalysts<br>PNRR - Electrode Materials for Post-Lithium batteries | ---                          | PNRR - Electrode Materials for Post-Lithium batteries  | ---  |
| F529887 | 75,7  | MUR DM 118 - Enhancing Electrochemical Applications by Microporous Polymer-Based Ion Exchange Membranes   | ---                          | MUR DM 118 - Enhancing Electrochemical Applications by Microporous Polymer-Based Ion Exchange Membranes            | ---  |
| F529784 | 74    | PNRR/PNC Salute - 3D barrier models: bioactive constructs for biological twin development   | ---                          | PNRR/PNC Salute - 3D barrier models: bioactive constructs for biological twin development                          | Younger applicant prevails<br>Conditional admission *    |
| F377982 | 71,9  | PNRR/PNC Salute - 3D bioprinting: organ-on-a-chip models for drug screening<br>Ateneo - Surface coating and functionalization of implants with molecules featuring a multifunctional action   | ---                          | PNRR/PNC Salute - 3D bioprinting: organ-on-a-chip models for drug screening  | ---  |

**Nucleo Dottorato di Ricerca**

Politecnico di Torino - Corso Duca degli Abruzzi 24, 10129 - Torino, Italia  
Tel. +39 011 090 6095

[scudo@polito.it](mailto:scudo@polito.it) - [www.polito.it](http://www.polito.it)



Candidates selected for a position, who have already met all admission requirements (see art. 6, paragraph 1 of the call for applications) as of 30<sup>th</sup> September 2023, must enroll online through the Apply procedure **from 2<sup>nd</sup> October 2023 to 8<sup>th</sup> October 2023** and must make identification at the Ph.D. Unit from **9<sup>th</sup> October to 20<sup>th</sup> October 2023**.

Candidates selected for a position, who meet all the admission requirements (see art. 6, paragraph 1 of the call for applications) on 31<sup>st</sup> October 2023, must enroll online through the Apply procedure **from 2<sup>nd</sup> November 2023 to 8<sup>th</sup> November 2023** and must make identification at the Ph.D. Unit from **9<sup>th</sup> November to 15<sup>th</sup> November 2023**.

Applicants admitted to a Ph.D. programme with a scholarship pursuant to **Ministerial Decree no. 117** and **Ministerial Decree no. 118** are required to enrol according to the deadlines that will be communicated by the Ph.D. Unit 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                   |
|---------|-------|--|------------------------------|-----------------------|-------------------------|
| F472936 | 76,9  | PNRR - Electrode Materials for Post-Lithium batteries  | ---                          | ---                   | Conditional admission * |
| F512069 | 74,5  | Ateneo - Advanced Electrode/Electrolyte Materials for Next-Generation Energy Storage<br>IIT - Investigation of Safe and Sustainable Electrode and Electrolyte Materials for Next-Generation Energy Storage<br>PNRR - Electrode Materials for Post-Lithium batteries  | ---                          | ---                   | ---                     |
| F531898 | 74    | Ateneo - Cement-based composite materials for structural, functional, and environmental applications<br>PNRR - Innovative Materials and Lightweighting for Sustainable Mobility<br>MUR DM 117/CIM 4.0 - Energy efficiency of additive manufacturing technologies<br>ENI - Additive manufacturing and integration for the development of reactors | ---                          | ---                   | ---                     |





| User    | Score | Eligibility to scholarship with predefined research topic   | Waiving right to scholarship | Allocated scholarship | Notes                       |
|---------|-------|---|------------------------------|-----------------------|-----------------------------|
| F531311 | 73,4  | Ateneo - Advanced Electrode/Electrolyte Materials for Next-Generation Energy Storage<br>DISAT - Lithium protection and use for ammonia production and energy storage systems<br>MUR DM 118 - Enhancing Electrochemical Applications by Microporous Polymer-Based Ion Exchange Membranes<br>IIT - Investigation of Safe and Sustainable Electrode and Electrolyte Materials for Next-Generation Energy Storage<br>INRIM - Advanced Metrology for Materials Science and Technology        | ---                          | ---                   | Conditional admission<br>** |
| F368250 | 72,7  | Ateneo - Cement-based composite materials for structural, functional, and environmental applications  | ---                          | ---                   | Conditional admission<br>** |
| F431051 | 71    | ENI - Additive manufacturing and integration for the development of reactors  | ---                          | ---                   | ---                         |
| F531186 | 70,5  | DISAT - Production of Janus 2D material inks for energy conversion applications<br>Ateneo - Advanced Electrode/Electrolyte Materials for Next-Generation Energy Storage<br>IIT - Investigation of Safe and Sustainable Electrode and Electrolyte Materials for Next-Generation Energy Storage<br>Ateneo - Design and development of advanced ceramics by Digital Light Processing for sensing and environmental applications<br>PNRR - Electrodeic Materials for Post-Lithium batteries | ---                          | ---                   | ---                         |
| F404925 | 65,2  | PNRR/PNC Salute - 3D barrier models: bioactive constructs for biological twin development   | ---                          | ---                   | ---                         |

Applicants who scored at least 60/100 and want to assert their eligibility to get admission within the number of reserved positions available (art. 2 paragraph 2 “Reserved Ph.D positions” in the call for admission) shall contact PhD Office ([exclusively through the ticketing service](#)) by **5<sup>th</sup> October 2023**, including documents supporting their request of admission within the total number of reserved position.



**Politecnico  
di Torino**

Nucleo  
Dottorato di Ricerca

### 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 **31<sup>st</sup> October 2023**. The failure of achievement by the deadline would result in the irrevocable loss of the right to enroll.

\*\* Conditional admission: because the English certificates required to enrol in a PhD programme is not yet acquired.

In case of admission in a PhD programme, the candidate will be allowed to enrol only if submitting **by and no later than 31<sup>st</sup> October 2023**) one among the certificates required, pursuant to art. 6, paragraph 1, letter b) of the call for admission. The failure to submit the certificate shall entail the loss of the right to enrolment.

\*\*\* Admission under condition since the second-level Degree requires further detailed analysis by the University regarding the eligibility of the University that will issue the title of Master of Science. These checks must be completed in time for enrolment.

Torino, 14/09/2023

Nucleo Dottorato di Ricerca  
Politecnico di Torino - Corso Duca degli Abruzzi 24, 10129 - Torino, Italia  
Tel. +39 011 090 6095  
[scudo@polito.it](mailto:scudo@polito.it) - [www.polito.it](http://www.polito.it)

