PHD VIRTUAL OPEN WEEK 2021
PhD course in Materials Science and Technology

A sneak peek to the PhD course in Materials Science and Technology at PoliTO.
Outline

• Welcome from Prof. Barbara Bonelli
• Research Topics
• The Course in a nutshell
• Our Excellences
• About our PhD students
• Which opportunities after the PhD?
• Let some of our students speak!
  Testimonials: Luisa Baudino, Matteo Caprioli
  and Josip Vincic.

barbara.bonelli@polito.it
Research Topics http://dottorato.polito.it/mtm/en/research_proposals
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The Course in a nutshell
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External activities

[Image](https://www.disat.polito.it/the_department/internal_structures/department_labs)

[Image](https://www.facebook.com/PhDMatSciTecPolito)
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Our Excellences: The Department of Excellence Project

→ Advanced Microscopy lab

Focus Ion Beam

Transmission Electron Microscopy

Nano-IR optical spectroscopy/microscopy
Our Excellences: our ERC laureates
http://dottorato.polito.it/mtm/en/excellence

Prof. Chiara Vitale Brovarone
Prof. Valentina Cauda
Prof. Alberto Fina
Prof. Giovanni Pavan
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About our PhD students

- **PoliTO**: 50.7%
- **Other Universities**: 49.3%

Ad hoc courses:
- Materials Engineering: 36.62%
- Materials Science: 5.63%
- Biomedical Engineering: 5.63%
- Chemistry: 12.68%
- Others: 5.63%
About our PhD students

66.67% Foreign
33.33% Italian
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Which opportunities after the PhD?

The transversal nature of the competences of the PhDs in Materials Science and Technology will offer you professional opportunities in the fields of applied and basic research (in both the public and private sectors), teaching and in any industrial sectors implying high-level expertise in the research and development of innovative materials, as well as production, either in Italy or abroad.

Survey of 2017-2019 PhD laureates
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Luisa Baudino: My background

PhD in Materials Science and Technology at Polito

MEng in Material Sciences and Engineering at Polito and INP Grenoble Phelma (France), Master Thesis at Okayama University (Japan)

BEng in Material Engineering at Polito
Why a MatSci PhD @ Polito?

- Interdisciplinarity
- International opportunities
- Teaching activities
Why a MatSci PhD @ Polito?

- Interdisciplinarity
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Teaching activities

Teaching assistant in the Nanomaterials and Nanotechnologies for energy applications course
PhD in Materials Science and Technology at Polito in collaboration with the Hebrew University of Jerusalem (Israel) [Joint Research with Top Universities Program]

MEng in Material Sciences and Engineering at Polito, Master Thesis at IBM – Almaden Research Center (USA)

BEng in Material Engineering at Polito
Matteo Caprioli: My research activity

3D printing via vat photopolymerization of self-healing hydrogels

Why a MatSci PhD @ Polito?

- Forefront research
- Dynamic environment
- International cooperation

What MatSci PhD @ Polito gave me?

- Teamwork
- Problem solving
- Vertical knowledge
Josip Vinčić: Who am I?

Non-italian

Non-italian speaker
Josip Vinčić: My background

PhD in Materials Science and Technology at Politecnico di Torino

MEng in Chemical engineering at Faculty of Chemical Engineering and Technology, University of Zagreb (Croatia)

BEng in Chemical engineering at Faculty of Chemical Engineering and Technology, University of Zagreb (Croatia)
Josip Vinčić: Why POLITO & MatSci PhD?

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<tr>
<th>Politecnico di Torino</th>
<th>Materials Science and Technology</th>
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<tbody>
<tr>
<td>• QS world ranking; Engineering and Technology; TOP50</td>
<td>• Interesting research topic:</td>
</tr>
<tr>
<td>• Transparent application procedure</td>
<td>• Innovative approach</td>
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<tr>
<td>• Cooperation with industry</td>
<td>• Additive technologies</td>
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<tr>
<td>• Laboratory equipment and instruments</td>
<td>• Possibility of industrial application</td>
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<td>• Personal interest</td>
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Josip Vinčić: What after? What NOW!?
Here we are, if you have questions!

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