SUGGESTED INSTITUTIONS FOR THE ERASMUS+ TRAINEESHIP Call 2021
School of Science of Nature

In order to apply to one of the following institutions, please:
- Check the actual availability of places at the host destination by contacting the UniTO reference professor. Destinations are subject to multiple applications;
- Verify the coherence of the scientific sector and the disciplinary field with your own study program;
- Verify the level of studies required:
  - UG - Undergraduate - Bachelor’s Degree
  - PG - Postgraduate - Master’s Degree
  - D - PhD - Doctorate
- Check the language requirements;
- Contact the host institution to inquire about places availability;
- If available, ask the institution to fill out a letter of intent (e.g., Attachment 1 - Host Letter);
- Attach the Host letter to your application form.

AUSTRIA

Austrian Academy of Sciences-Space Research Institute Graz
https://www.iwf.oeaw.ac.at/en/home/

Discipline: Astrophysics
Cycle of study: PG
Number of students hosted: 1
Number of months: 6 max.
Language competences: English
Additional documents required:-
UniTO reference professor: Davide Gandolfi
UniTO Department: Physics

DENMARK

Aarhus University Hospital Dept.of Oncology and Danish Center for Particle Therapy
http://www.dcpt.en.auh.dk

Discipline: Medical Physics
Cycle of study: PG
Number of students hosted: 1 or more
Number of months: not specified
Language competences: -
Additional documents required:-
UniTO reference professor: Prof. Roberto Cirio
UniTO Department: Physics
### FINLAND

**Tampere University-Faculty of Medicine and Health Technology**

http://www.tuni.fi

**Discipline:** Biomedical Engineering  
**Cycle of study:** UG-PG-PhD  
**Number of students hosted:** 6  
**Number of months:** 6  
**Language competences:** English B2, certificate written by University Staff, preferably English teacher  
**Additional documents required:** Nomination letter from the coordinator  
**UniTO reference professor:** Prof. Roberto Cirio  
**UniTO Department:** Physics

### FRANCE

**Institute Curie-Centre de prontothérapie d’Orsay**

https://institut-curie.org/liste/proton-therapy-center

**Discipline:** New Physics tool for cancer radiation with protons  
**Cycle of study:** PG  
**Number of students hosted:** 1  
**Number of months:** 6 max  
**Language competences:** English  
**Additional documents required:** Training Agreement signed by both Institutions  
**UniTO reference professor:** Prof. Roberto Cirio  
**UniTO Department:** Physics

**Institute Curie - Département de Bioinformatique et Biologie des systèmes**

https://science.curie.fr/

**Discipline:** Statistical Mechanics/Computational Biology  
**Cycle of study:** PG (Thesis research)  
**Number of students hosted:** 1  
**Number of months:** 6 max.  
**Language competences:** English  
**Additional documents required:** -  
**UniTO reference professor:** Prof. Michele Caselle  
**UniTO Department:** Physics

**CNRS-Ecole Polytechnique-Laboratoire Chimie Moléculaire (LCM)-Palaiseau**

https://portail.polytechnique.edu/lcm/en

**Discipline:** Analytical Chemistry  
**Cycle of study:** UG- PG-Phd  
**Number of students hosted:** not specified
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<th><strong>Number of months:</strong> 6 max.</th>
<th><strong>Language competences:</strong> English-good level</th>
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<td><strong>Additional documents required:</strong></td>
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<tr>
<td><strong>UniTO reference professor:</strong> Prof. Paola Calza</td>
<td><strong>UniTO Department:</strong> Chemistry</td>
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**Université de Pau et des Pays de l’Adour**  

**Discipline:** Physics and Chemical Physics  
**Cycle of study:** PG  
**Number of students hosted:** 2  
**Language competences:** Basic English for speaking and writing  
**Additional documents required:** -  
**UniTO reference professor:** Prof. Igor Pesando (Physics) and Silvia Bordiga (Chemistry)  
**UniTO Department:** Physics and Chemistry

**Sorbonne Université – Laboratoire Kastler-Brossel**  

**Discipline:** Solid state physics  
**Cycle of study:** UG, PG, PhD  
**Number of students hosted:** 1  
**Number of months:** 6 max.  
**Language competences:** English  
**Additional documents required:** -  
**UniTO reference professor:** Prof. Paolo Olivero  
**UniTO Department:** Physics

**CNRS – Institut Néel**  
[https://neel.cnrs.fr/](https://neel.cnrs.fr/)

**Discipline:** Solid state physics  
**Cycle of study:** UG, PG, PhD  
**Number of students hosted:** 1  
**Number of months:** 6 max.  
**Language competences:** English  
**Additional documents required:** -  
**UniTO reference professor:** Prof. Paolo Olivero  
**UniTO Department:** Physics

**CEA Paris-Saclay**  
[www.cea.fr](http://www.cea.fr)

**Discipline:** Particle Physics  
**Cycle of study:** UG, PG, PhD
**Number of students hosted:** 1  
**Number of months:** 6 max.  
**Language competences:** English  
**Additional documents required:** -  
**UniTO reference professor:** Prof. Stefano Argiro'  
**UniTO Department:** Physics

**Ecole Normal Superieure de Paris • IBENS**  
[https://www.ibens.ens.fr/?lang=fr](https://www.ibens.ens.fr/?lang=fr)

**Discipline:** Statistical Mechanics/Computational Biology  
**Cycle of study:** PG (thesis research)  
**Number of students hosted:** 1  
**Number of Months:** 6 (massimo)  
**Language competences:** Inglese  
**Additional documents required:** -  
**UniTO Reference professor:** Prof. Michele Caselle  
**UniTO Department:** Physics

**GERMANY**

**Karlsruhe Institute of Technology**  
[http://www.kit.edu](http://www.kit.edu)

**Discipline:** Astroparticle Physics  
**Cycle of study:** UG-PG-PhD  
**Number of students hosted:** 4  
**Number of months:** 4 max.  
**Language competences:** English  
**Additional documents required:** Certificate of Enrolment signed by University of Torino, short CV and copy of the passport of the Trainee  
**UniTO reference professor:** Prof. Mario Edoardo Bertaina or Roberto Cirio  
**UniTO Department:** Physics

**Max-Plank Institut fur Kernphysik Heidelberg**  

**Discipline:** Astroparticle Physics  
**Cycle of study:** UG- PG-Phd  
**Number of students hosted:** 4  
**Language competences:** English  
**Additional documents required:**  
**UniTO reference professor:** Prof. Andrea Chiavassa  
**UniTO Department:** Physics
Freie Universität Berlin – Department of Hearth Sciences
https://www.geo.fu-berlin.de/

**Discipline:** Geography, geology and meteorology  
**Cycle of study:** UG-PG-PhD  
**Number of students hosted:** 2  
**Language competences:** English B2 or German B1  
**UniTO reference professor:** Prof. Rodolfo Carosi  
**UniTO Department:** Earth Sciences

GSI Helmholtzzentrum für Schwerionenforschung GmbH-Biophysics Dept.-Darmstadt
http://www.gsi.de

**Discipline:** Medical Physics  
**Cycle of study:** PG  
**Number of students hosted:** 1  
**Number of months:** 6 - 12  
**Language competences:** English - speaking and writing fluently  
**UniTO reference professor:** Prof. Roberto Cirio  
**UniTO Department:** Physics

Ruhr Universität - Bochum Institut fur Experimentalphysik
http://www.paluma.rub.de

**Discipline:** Nuclear and Particle Physics  
**Cycle of study:** UG-PG  
**Number of students hosted:** 1  
**Number of months:** 3 max.  
**Language competences:** English (certificate)  
**UniTO reference professor:** Prof. Simonetta Marcello  
**UniTO Department:** Physics

Technische Universität Dresden - Faculty of Mechanical Science and Engineering
https://tu-dresden.de/ing/maschinenwesen/die-fakultaet?set_language=en

**Discipline:** Solid state physics  
**Cycle of study:** UG, PG, PhD  
**Number of students hosted:** 1  
**Number of months:** 6 max.  
**Language competences:** English  
**Additional documents required:** -  
**UniTO reference professor:** Prof. Paolo Olivero  
**UniTO Department:** Physics

Ulm University – Quantum Optics Institute
https://www.uni-ulm.de/nawi/institut-fuer-quantenoptik/

**Discipline:** Solid state physics
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<tr>
<th>Institute</th>
<th>Cycle of study</th>
<th>Number of students hosted</th>
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<th>Language competences</th>
<th>Additional documents required</th>
<th>UniTO reference professor</th>
<th>UniTO Department</th>
<th>Discipline</th>
<th>UniTO Department</th>
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<tr>
<td>Leipzig University – Felix-Bloch-Institut für Festkörperphysik</td>
<td>UG, PG, PhD</td>
<td>1</td>
<td>6 max.</td>
<td>English</td>
<td>-</td>
<td>Prof. Paolo Olivero</td>
<td>Physics</td>
<td>Solid state physics</td>
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<td><a href="https://www.physgeo.uni-leipzig.de/fakultaet/institute-bereiche-und-zentren/felix-bloch-institut-fuer-festkoerperphysik/">https://www.physgeo.uni-leipzig.de/fakultaet/institute-bereiche-und-zentren/felix-bloch-institut-fuer-festkoerperphysik/</a></td>
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<td>DESY</td>
<td>UG, PG, PhD</td>
<td>5</td>
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<td>English</td>
<td>-</td>
<td>Prof. Roberto Covarelli</td>
<td>Physics</td>
<td>Particle Physics</td>
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<tr>
<td>Rheinische Friedrich-Wilhelms-Universität Bonn - Helmholtz-Institut für</td>
<td>UG, PG, PhD</td>
<td>1</td>
<td>3 max.</td>
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<td>-</td>
<td>Prof. Michela Chiosso</td>
<td>Physics</td>
<td>Detectors for Particle Physics</td>
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<td>Strahlen und Kernphysik</td>
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<tr>
<td>Helmholtz Zentrum Monaco - Institute of Epigenetics and Stem Cells</td>
<td>UG, PG, PhD</td>
<td>1</td>
<td>3 max.</td>
<td>-</td>
<td>-</td>
<td>Prof. Michela Chiosso</td>
<td>Physics</td>
<td>Institute of Epigenetics and Stem Cells</td>
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<td><a href="https://www.helmholtz-muenchen.de/helmholtz-zentrum-muenchen/index.html">https://www.helmholtz-muenchen.de/helmholtz-zentrum-muenchen/index.html</a></td>
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</table>
**Discipline:** Statistical Mechanics/ Computational Biology  
**Cycle of study:** PG (thesis research)  
**Number students hosted:** 1  
**Number of months:** 6 max.  
**Language competences:** English  
**Additional documents required:** -  
**UniTO reference professor:** Prof. Michele Caselle  
**UniTO Department:** Physics

**NETHERLANDS**

**Erasmus University Rotterdam - Erasmus Medical Center Cancer Institute**  
[http://www.erasmusmc.nl](http://www.erasmusmc.nl)  
**Discipline:** Medical physics/biomedical engineering or related  
**Cycle of study:** PG-PhD  
**Number of students hosted:** 1 - 2  
**Number of months:** 8-12 max.  
**Language competences:** English - level IELTS grade:7.0 or TOEFL:100  
**Additional documents required:** LA signed by LA-copy of the passport and CV concerning the trainee  
**UniTO reference professor:** Prof. Roberto Cirio  
**UniTO Department:** Physics

**POLAND**

**Polish Academy of Science - Institute of Nuclear Physics - IFJ PAN Kraków**  
[http://www.ifj.edu.pl](http://www.ifj.edu.pl)  
**Discipline:** Applied Physics, Medical Physics  
**Cycle of study:** PG  
**Number of students hosted:** 5  
**Number of months:** 6 max.  
**Language competences:** English (certificate)  
**UniTO reference professor:** Prof. Roberto Cirio  
**UniTO Department:** Physics

**Adam Mickiewicz University in Poznan Institute of Geoecology and Geoinformation**  
**Discipline:** Earth Sciences and Geoinformatics  
**Cycle of study:** PG-PhD  
**Number of students hosted:** 2  
**Number of months:** not specified  
**Language competences:** not specified
### Additional documents required:
NA signed by NA-copy of the passport and CV concerning the trainee

### UniTO reference professor:
Prof. Marco Giardino

### UniTO Department:
Earth Sciences

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**The National Center for Nuclear Research, Cosmic Ray Laboratory, Astrophysics Division in Łódź (Łódź)**

http://ncbj.u.lodz.pl/english/index_english.html

**Discipline:** Astroparticle Physics and Electronics  
**Cycle of study:** UG-PG-PhD  
**Number of students hosted:** 1-4  
**Language competences:** Basic English for speaking and writing  
**Additional documents required:** -  
**UniTO reference professor:** Prof. Mario Bertaina  
**UniTO Department:** Physics

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### PORTUGAL

**Laboratory for Instrumentation and Experimental Particle Physics (LIP) - Lisboa**

http://www.lip.pt/

**Discipline:** Particle Physics  
**Cycle of study:** UG-PG-PhD  
**Number of students hosted:** 3  
**Number of months:** 6 max.  
**Language competences:** English medium  
**Additional documents required:** -  
**UniTO reference professor:** Prof. Roberto Covarelli  
**UniTO Department:** Physics

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**Laboratory for Instrumentation and Experimental Particle Physics (LIP) - Lisboa**

https://www.lip.pt/

**Discipline:** Astroparticle Physics  
**Cycle of study:** UG-PG-PhD  
**Number of students hosted:** 6 (2UG-2PG-2PhD)  
**Number of months:** min. 2  
**Language competences:** English  
**Additional documents required:** -  
**UniTO reference professor:** Prof. Andrea Chiavassa  
**UniTO Department:** Physics

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**Laboratory for Instrumentation and Experimental Particle Physics (LIP) - Lisboa**

http://www.lip.pt/

**Discipline:** Particle Physics  
**Cycle of study:** UG-PG-PhD  
**Number of students hosted:** 1
**Number of months:** 3 max.  
**Language competences:** -  
**Additional documents required:** -  
**UniTO reference professor:** Prof Michela Chiosso  
**UniTO Department:** Physics

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### SLOVAKIA

**Slovak Academy of Sciences (SAS) - Institute of Experimental Physics, Košice**  

**Discipline:** Astroparticle Physics-Space Weather-Atmospheric Physics  
**Cycle of study:** UG-PG-PhD  
**Number of students hosted:** 2  
**Number of months:** 3 max.  
**Language competences:** English- level basic  
**Additional documents required:** -  
**UniTO reference professor:** Prof. Mario Edoardo Bertaina  
**UniTO Department:** Physics

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### SPAIN

**Universitat Politècnica de València - Dep.to Sistemas Informáticos y Computación**  

**Discipline:** Natural language processing and analysis in social media  
**Cycle of study:** PhD  
**Number of students hosted:** 1  
**Number of months:** 3 less or more  
**Language competences:** English B1 /Spanish A2 (recommended)  
**Additional documents required:** -  
**UniTO reference professor:** Prof. Viviana Patti  
**UniTO Department:** Computer Sciences

**Universidad Carlos III de Madrid**  
[http://www.uc3m.es](http://www.uc3m.es)  

**Discipline:** Physics  
**Cycle of study:** PG  
**Number of students hosted:** 2  
**Number of months:** 4 max.  
**Language competences:** English- good level  
**Additional documents required:** -  
**UniTO reference professor:** Prof. Mario Edoardo Bertaina and Silvia Ferrarese
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<tr>
<th>UniTO Department:</th>
<th>University of Santiago de Compostela-Physics Faculty-Dept. of Particle Physics</th>
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<td><a href="http://www.usc.es">http://www.usc.es</a></td>
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<tr>
<td><strong>Discipline:</strong></td>
<td>Medical Physics</td>
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<td><strong>Cycle of study:</strong></td>
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<td><strong>Number of students hosted:</strong></td>
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<td><strong>Number of months:</strong></td>
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<td><strong>Language competences:</strong></td>
<td>English or Spanish level basic</td>
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<td><strong>Additional documents required:</strong></td>
<td>Information concerning the trainee: education academic degree and additional skills (i.e. research)</td>
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<td>Prof. Roberto Cirio</td>
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<tr>
<th>Universidad Rey Juan Carlos- Departamento de Tecnologia Quimica y Ambiental Mostoles</th>
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**SWEDEN**

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<td><strong>Discipline:</strong></td>
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<td><strong>Cycle of study:</strong></td>
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<td><strong>Number of students hosted:</strong></td>
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Number of months: 6 max.
Language competences: English
Additional documents required: -
UniTO reference professor: Prof. Paolo Olivero
UniTO Department: Physics

UNITED KINGDOM

Heriot Watt University – School of Engineering & Physical Sciences
https://researchportal.hw.ac.uk/en/organisations/school-of-engineering-physical-sciences

Discipline: Solid state physics
Cycle of study: UG, PG, PhD
Number of students hosted: 1
Number of months: 6 max.
Language competences: English
Additional documents required: -
UniTO reference professor: Prof. Paolo Olivero
UniTO Department: Physics

Cardiff University – School of Physics and Astronomy
https://www.cardiff.ac.uk/physics-astronomy

Discipline: Solid state physics
Cycle of study: UG, PG, PhD
Number of students hosted: 1
Number of months: 6 max.
Language competences: English
Additional documents required: -
UniTO reference professor: Prof. Paolo Olivero
UniTO Department: Physics