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:
  o UG - Undergraduate - Bachelor's Degree
  o PG - Postgraduate - Master's Degree
  o 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 pronthérapie 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 de 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
<table>
<thead>
<tr>
<th>Location</th>
<th>URL</th>
<th>Discipline</th>
<th>Cycle of study</th>
<th>Number of students hosted</th>
<th>Number of months</th>
<th>Language competences</th>
<th>Additional documents required</th>
<th>UniTO reference professor</th>
<th>UniTO Department</th>
</tr>
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<tbody>
<tr>
<td>Sorbonne Université – Laboratoire Kastler-Brossel</td>
<td><a href="http://www.ikb.upmc.fr/">Link</a></td>
<td>Solid state physics</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>
</tr>
<tr>
<td>CNRS – Institut Néel</td>
<td><a href="https://neel.cnrs.fr/">Link</a></td>
<td>Solid state physics</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>
</tr>
<tr>
<td>CEA Paris-Saclay</td>
<td><a href="www.cea.fr">Link</a></td>
<td>Particle Physics</td>
<td>UG, PG, PhD</td>
<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
</tbody>
</table>
### 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

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### 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

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### 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

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#### 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
<table>
<thead>
<tr>
<th>Institution</th>
<th>Discipline</th>
<th>Cycle of study</th>
<th>Number of students hosted</th>
<th>Number of months</th>
<th>Language competences</th>
<th>UniTO reference professor</th>
<th>UniTO Department</th>
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</thead>
<tbody>
<tr>
<td>Freie Universität Berlin – Department of Hearth Sciences</td>
<td>Geography, geology and meteorology</td>
<td>UG-PG-PhD</td>
<td>2</td>
<td></td>
<td>English B2 or German B1</td>
<td>Prof. Rodolfo Carosi</td>
<td>Earth Sciences</td>
</tr>
<tr>
<td>GSI Helmholtzzentrum für Schwerionenforschung GmbH-Biophysics Dept.-Darmstadt</td>
<td>Medical Physics</td>
<td>PG</td>
<td>1</td>
<td>6-12</td>
<td>English - speaking and writing fluently</td>
<td>Prof. Roberto Cirio</td>
<td>Physics</td>
</tr>
<tr>
<td>Ruhr Universität - Bochum Institut fur Experimentalphysik</td>
<td>Nuclear and Particle Physics</td>
<td>UG-PG</td>
<td>1</td>
<td>3 max</td>
<td>English (certificate)</td>
<td>Prof. Simonetta Marcello</td>
<td>Physics</td>
</tr>
<tr>
<td>Technische Universität Dresden - Faculty of Mechanical Science and Engineering</td>
<td>Solid state physics</td>
<td>UG, PG, PhD</td>
<td>1</td>
<td>6 max</td>
<td>English</td>
<td>Prof. Paolo Olivero</td>
<td>Physics</td>
</tr>
<tr>
<td>Ulm University – Quantum Optics Institute</td>
<td>Solid state physics</td>
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<tr>
<td>University</td>
<td>Discipline</td>
<td>Cycle of study</td>
<td>Number of students hosted</td>
<td>Number of months</td>
<td>Language competences</td>
<td>Additional documents required</td>
<td>UniTO reference professor</td>
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</tr>
<tr>
<td>Leipzig University – Felix-Bloch-Institut für Festkörperphysik</td>
<td>Solid state physics</td>
<td>UG, PG, PhD</td>
<td>1</td>
<td>6 max.</td>
<td>English</td>
<td>-</td>
<td>Prof. Paolo Olivero</td>
</tr>
<tr>
<td>DESY</td>
<td>Particle Physics</td>
<td>UG, PG, PhD</td>
<td>5</td>
<td>6 max.</td>
<td>English</td>
<td>-</td>
<td>Prof. Roberto Covarelli</td>
</tr>
<tr>
<td>Rheinische Friedrich-Wilhelms-Universität Bonn - Helmholtz-Institut für Strahlen und Kernphysik</td>
<td>Detectors for Particle Physics</td>
<td>UG, PG, PhD</td>
<td>1</td>
<td>3 max.</td>
<td>-</td>
<td>-</td>
<td>Prof. Michela Chiosso</td>
</tr>
<tr>
<td>Helmholtz Zentrum Monaco - Institute of Epigenetics and Stem Cells</td>
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</tr>
</tbody>
</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

**University of Hamburg, Meteorological Institute**  
[www.uni-hamburg.de](http://www.uni-hamburg.de)  

**Discipline:** Atmospheric Physics  
**Cycle of study:** PG  
**Number students hosted:** 1  
**Language competences:** English  
**UniTO reference professor:** Prof. Silvia Ferrarese, Prof. Silvia Trini Castelli  
**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**

http://www.igig.amu.edu.pl/en

**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

### The National Center for Nuclear Research, Cosmic Ray Laboratory, Astrophysics Division in Lodz (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

### PORTUGAL

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

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

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

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

Laboratory for Instrumentation and Experimental Particle Physics (LIP) - Lisbona
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

SLOVAKIA

Slovak Academy of Sciences (SAS) - Institute of Experimental Physics, Košice
http://wwwnex.saske.sk/uef/en

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

SPAIN

Universitat Politècnica de València - Dep.to Sistemas Informáticos y Computación
http://www.upv.es/entitades/DSIC/index.html

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
<table>
<thead>
<tr>
<th>Institution</th>
<th>Discipline</th>
<th>Cycle of study</th>
<th>Number of students hosted</th>
<th>Number of months</th>
<th>Language competences</th>
<th>Additional documents required</th>
<th>UniTO reference professor</th>
<th>UniTO Department</th>
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<tr>
<td>Universidad Carlos III de Madrid</td>
<td>Physics</td>
<td>PG</td>
<td>2</td>
<td>4 max.</td>
<td>English- good level</td>
<td>-</td>
<td>Prof. Mario Edoardo Bertaina and Silvia Ferrarese</td>
<td>Physics</td>
</tr>
<tr>
<td>University of Santiago de Compostela-Physics Faculty-Dept.of Particle Physics</td>
<td>Medical Physics</td>
<td>UG-PG-PhD</td>
<td>2</td>
<td>12</td>
<td>English or Spanish level basic</td>
<td>Information concerning the trainee: education academic degree and additional skills (i.e. research)</td>
<td>Prof. Roberto Cirio</td>
<td>Physics</td>
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<tr>
<td>Universidad Rey Juan Carlos- Departamento de Tecnologia Quimica y Ambiental Mostoles</td>
<td>Photocatalysis</td>
<td>PG-PhD</td>
<td>1 or 2</td>
<td>3-12 max.</td>
<td>English or Spanish level B2</td>
<td>-</td>
<td>Prof. Paola Calza</td>
<td>Chemistry</td>
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**SWEDEN**

<table>
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<tr>
<th>Institution</th>
<th>Discipline</th>
<th>Cycle of study</th>
<th>Number of students hosted</th>
<th>Number of months</th>
<th>Language competences</th>
<th>Additional documents required</th>
<th>UniTO reference professor</th>
<th>UniTO Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uppsala University- Department of Physics and Astronomy</td>
<td>Nuclear and Particle Physics</td>
<td>UG-PG</td>
<td>1</td>
<td>2 max.</td>
<td>-</td>
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</table>
**Language competences:** English - level B2  
**Additional documents required:** -  
**UniTO reference professor:** Prof. Simonetta Marcello  
**UniTO Department:** Physics

**Stockholm University – Physics Department**  
[https://www.fysik.su.se/english/](https://www.fysik.su.se/english/)  
**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

**UNITED KINGDOM**

**Heriot Watt University – School of Engineering & Physical Sciences**  
[https://researchportal.hw.ac.uk/en/organisations/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](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