SUGGESTED INSTITUTIONS FOR THE ERASMUS+ TRAINEESHIP - CALL 2022
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.

ARGENTINA

Instituto de Tecnologías en Detección y Astropartículas – Buenos Aires
https://www.iteda.cnea.gov.ar

Discipline: Astro-Particle Physics, Astrophysics and Cosmo-Geophysics
Cycle of study: PG - D
Number of students hosted: 2
Number of months: 6 max.
Language competences: English
Additional documents required:-
UniTO reference professor: Bertaina Mario Edoardo
UniTO Department: Physics

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 - 2  
**Number of months:** not specified  
**Language competences:** English B2  
**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:** PG  
**Number of students hosted:** 1-2  
**Number of months:** not specified  
**Language competences:** English B2  
**Additional documents required:** /  
**UniTO reference professor:** Prof. Roberto Cirio  
**UniTO Department:** Physics
### Institute Curie-Centre de prontothérapie d’Orsay

Discipline: Medical Physics  
Cycle of study: PG  
Number of students hosted: 1-2  
Number of months: not specif  
Language competences: Eng B2  
Additional documents required: -  
UniTO reference professor: Prof. Roberto Cirio  
UniTO Department: Physics

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

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
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
http://www.lkb.upmc.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

CNRS – Institut Néel
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

**Discipline:** Particle Physics  
**Cycle of study:** UG, PG, PhD
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<tr>
<th>University</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>Université de Savoye – Mont Blanc (Sede di Annecy)</td>
<td>Medical Physics</td>
<td>PG</td>
<td>1 - 2</td>
<td>not specified</td>
<td>English B2</td>
<td>-</td>
<td>Prof. Roberto Cirio</td>
<td>Physics</td>
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<tr>
<td>Ecole Normal Superieure de Paris IBENS</td>
<td>Statistical Mechanics/Computational Biology</td>
<td>PG (thesis research)</td>
<td>1</td>
<td>6 (massimo)</td>
<td>English</td>
<td>-</td>
<td>Prof. Michele Caselle</td>
<td>Physics</td>
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**GERMANY**

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<tr>
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<th>UniTO Department</th>
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<tr>
<td>Johannes Gutenberg University Mainz</td>
<td>Astroparticle Physics</td>
<td>UG- PG-Phd</td>
<td>2</td>
<td>6</td>
<td>Inglese</td>
<td>-</td>
<td>Prof. Gian Carlo Trinchero</td>
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<td>Institution</td>
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<tr>
<td>Karlsruhe Institute of Technology</td>
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<td>4</td>
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<td>English</td>
<td>Prof. Mario Edoardo Bertaina or Roberto Cirio</td>
<td>Physics</td>
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<tr>
<td>Max-Plank Institut fur Kernphysik Heidelberg</td>
<td>Astroparticle Physics</td>
<td>UG- PG-Phd</td>
<td>4</td>
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<td>English</td>
<td>Prof. Andrea Chiavassa</td>
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<td>University</td>
<td>Department/Discipline</td>
<td>Cycle of study</td>
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<td>Number of months</td>
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<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>not specified</td>
<td>English B2 or German B1</td>
<td>Prof. Rodolfo Carosi</td>
<td>Earth Sciences</td>
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<tr>
<td>GSI Helmholtzzentrum für Schwerionenforschung GmbH-Biophysics Dept.-Darmstadt</td>
<td>Medical Physics</td>
<td>PG</td>
<td>1-2</td>
<td>not specified</td>
<td>English B2</td>
<td>Prof. Roberto Cirio</td>
<td>Physics</td>
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<tr>
<td>Ruhr Universität-Bochum Institut für 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>
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<tr>
<td>Ulm University – Quantum Optics Institute</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>
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<tr>
<td>Leipzig University – Felix-Bloch-Institut für Festkörperphysik</td>
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<td><strong>Discipline:</strong> Solid state physics</td>
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<tr>
<td><strong>UniTO reference professor:</strong> Prof. Paolo Olivero</td>
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<tr>
<th>DESY (Deutsches Elektronen-Synchrotron), Amburgo</th>
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<td><strong>Discipline:</strong> Particle Physics</td>
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<td><strong>Cycle of study:</strong> UG, PG, PhD</td>
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<td><strong>Number of students hosted:</strong> 5</td>
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<td><strong>UniTO reference professor:</strong> Prof. Roberto Covarelli</td>
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<td><strong>UniTO Department:</strong> Physics</td>
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<th>Rheinische Friedrich-Wilhelms-Universität Bonn - Helmholtz-Institut für Strahlen und Kernphysik</th>
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<td><strong>Discipline:</strong> Detectors for Particle Physics</td>
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<td><strong>Cycle of study:</strong> UG, PG, PhD</td>
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<td><strong>Number of students hosted:</strong> 1</td>
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<td><strong>UniTO reference professor:</strong> Prof. Michela Chiosso</td>
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<th>Helmholtz Zentrum Monaco - Institute of Epigenetics and Stem Cells</th>
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<td><strong>Cycle of study:</strong> -</td>
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<td><strong>UniTO reference professor:</strong> -</td>
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**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  
**Cycle of study:** PG-PhD  
**Number of students hosted:** 1 - 2  
**Number of months:** not specified  
**Language competences:** English B2  
**Additional documents required:** -  
**UniTO reference professor:** Prof. Roberto Cirio  
**UniTO Department:** Physics

**POLAND**

**Polish Academy of Science - Institute of Nuclear Physics - Kraków**  
[http://www.ifj.edu.pl](http://www.ifj.edu.pl)  
**Discipline:** Medical Physics  
**Cycle of study:** PG  
**Number of students hosted:** 1 - 2  
**Number of months:** not specified  
**Language competences:** English B2  
**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:* identity document and curriculum vitae  
*UniTO reference professor:* Prof. Marco Giardino  
*UniTO Department:* Earth Sciences

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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

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

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
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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(s)</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>
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<tr>
<td>University of Santiago de Compostela</td>
<td>Medical Physics</td>
<td>PG-PhD</td>
<td>1</td>
<td>not specified</td>
<td>English B2</td>
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<td>Prof. Roberto Cirio</td>
<td>Physics</td>
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<td>University of Zaragoza</td>
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<td>PG-PhD</td>
<td>1-2</td>
<td>not specified</td>
<td>English B2</td>
<td>-</td>
<td>Prof. Roberto Cirio</td>
<td>Physics</td>
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<tr>
<td>Universidad Rey Juan Carlos- Departamento de Tecnología Química 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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### Uppsala University - Department of Physics and Astronomy

**Website**: [https://www.physics.uu.se/](https://www.physics.uu.se/)

**Discipline**: Nuclear and Particle Physics  
**Cycle of study**: UG-PG  
**Number of students hosted**: 1  
**Number of months**: 2 max.  
**Language competences**: English - level B2  
**Additional documents required**: -  
**UniTO reference professor**: Prof. Simonetta Marcello  
**UniTO Department**: Physics

### Stockholm University – Physics Department

**Website**: [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
University of Zurich  Physik-Institut
https://www.physik.uzh.ch/en.html

Discipline: Astroparticle Physics
Cycle of Study: UG-PG-PhD
Number of students hosted: 2
Number of months: 6
Language competences: English
Additional documents required: -
UniTO reference professor: Prof. Gian Carlo Trinchero
UniTO Department: Physics