

## 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:
  - 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.

#### 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

## FRANCE

### **Institute Curie-Centre de pronthérapie d'Orsay**

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

**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**

<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

**Université de Pau et des Pays de l'Adour**

[https://formation.univ-pau.fr/en/programs/science-and-technology-STS/master-degree-14/master-materials-science-and-engineering-83\\_1/master-degree-chemistry-and-physico-chemistry-of-materials-133\\_1.html](https://formation.univ-pau.fr/en/programs/science-and-technology-STS/master-degree-14/master-materials-science-and-engineering-83_1/master-degree-chemistry-and-physico-chemistry-of-materials-133_1.html)

**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](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

**Université de Savoie – Mont Blanc (Sede di Annecy)**

<https://www.univ-smb.fr/>

**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

**Ecole Normal Supérieure de Paris IBENS**

<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:** English  
**Additional documents required:** -  
**UniTO Reference professor:** Prof. Michele Caselle  
**UniTO Department:** Physics

## GERMANY

**Johannes Gutenberg University Mainz**

<https://www.uni-mainz.de/eng/>

**Discipline:** Astroparticle Physics  
**Cycle of Study:** UG- PG-Phd  
**Number of students hosted:** 2  
**Number of Months:** 6  
**Language competences:** Inglese  
**Additional documents required:** /  
**UniTO Reference professor:** Prof. Gian Carlo Trincherò  
**UniTO Department:** Fisica

**Karlsruhe Institute of Technology**

<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:** -

**UniTO reference professor:** Prof. Mario Edoardo Bertaina or Roberto Cirio

**UniTO Department:** Physics

**Max-Planck Institut fur Kernphysik Heidelberg**

<https://www.mpi-hd.mpg.de/mpi/en>

**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 Earth 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:** 1-2

**Number of months:** not specified

**Language competences:** English B2

**UniTO reference professor:** Prof. Roberto Cirio

**UniTO Department:** Physics

**Ruhr Universität - Bochum Institut für 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

**Ulm University – Quantum Optics Institute**

<https://www.uni-ulm.de/nawi/institut-fuer-quantenoptik/>

**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

**Leipzig University – Felix-Bloch-Institut für Festkörperphysik**

<https://www.physgeo.uni-leipzig.de/fakultaet/institute-bereiche-und-zentren/felix-bloch-institut-fuer-festkoerperphysik/>

**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

**DESY (Deutsches Elektronen-Synchrotron), Amburgo**

<https://cms.desy.de/>

**Discipline:** Particle Physics

**Cycle of study:** UG, PG, PhD

**Number of students hosted:** 5

**Number of months:** 6 max.

**Language competences:** English

**Additional documents required:** -

**UniTO reference professor:** Prof. Roberto Covarelli

**UniTO Department:** Physics

**Rheinische Friedrich-Wilhelms-Universität Bonn - Helmholtz-Institut für**

**Strahlen und Kernphysik**

<http://agketter.hiskp.uni-bonn.de>

**Discipline:** Detectors for 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

**Helmholtz Zentrum Monaco - Institute of Epigenetics and Stem Cells**

<https://www.helmholtz-muenchen.de/helmholtz-zentrum-muenchen/index.html>



**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>

**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>

**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 Geocology 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

## 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/entidades/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

**Universidad Carlos III de Madrid**

<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

**UniTO Department:** Physics

**University of Santiago de Compostela**

<http://www.usc.es>

**Discipline:** Medical Physics

**Cycle of study:** PG-PhD

**Number of students hosted:** 1

**Number of months:** not specif

**Language competences:** English B2

**Additional documents required:** -

**UniTO reference professor:** Prof. Roberto Cirio

**UniTO Department:** Physics

**University of Zaragoza**

<https://www.unizar.es/>

**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

**Universidad Rey Juan Carlos- Departamento de Tecnologia Quimica y Ambiental Mostoles**

<http://www.urjc.es>

**Discipline:** Photocatalysis

**Cycle of study:** PG-PhD

**Number of students hosted:** 1 or 2

**Number of months:** 3-12 max.

**Language competences:** English or Spanish level B2

**Additional documents required:** -

**UniTO reference professor:** Prof. Paola Calza

**UniTO Department:** Chemistry

## SWEDEN

### **Uppsala University- Department of Physics and Astronomy**

<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**

<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

## SWITZERLAND

**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 Trincherro

**UniTO Department:** Physics