

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

Number of months: 6 max.
Language competences: English-good level
Additional documents required:
UniTO reference professor: Prof. Paola Calza
UniTO Department: Chemistry

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

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

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: Inglese
Additional documents required: -
UniTO Reference professor: Prof. Michele Caselle
UniTO Department: Physics

GERMANY

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: 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-Planck Institut für 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

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 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

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

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

<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

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/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>

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 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: 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/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-Physics Faculty-Dept.of Particle Physics

<http://www.usc.es>

Discipline: Medical Physics

Cycle of study: UG-PG-PhD

Number of students hosted: 2

Number of months: 12

Language competences: English or Spanish level basic

Additional documents required: Information concerning the trainee: education academic degree and additional skills (i.e. research)

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

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