ENV PRO

Co-funded by the Erasmus+ Programme of the European Union

Instituto Superior Técnico (IST)
University of Lisbon, Portugal

The Environmental Science Education for Sustainable Human Health

6 – 13 September 2021

UNIVERSITÀ DEGLI STUDI DELLA TUSCIA

GIRAF PM

NAS RA INTERNATIONAL SCIENTIFIC EDUCATIONAL CENTER

MARTIN-LUTHER-UNIVERSITÄT HALLE-WITTENBERG

TÉCNICO LISBOA

GRENA
GEORGIAN RESEARCH AND EDUCATIONAL NETWORKING ASSOCIATION

Instituto Superior Técnico (IST)
University of Lisbon, Portugal

By

Fernando P. Carvalho, PhD
Laboratório de Protecção e Segurança Radiológica
Instituto Superior Técnico/Campus Tecnológico Nuclear
Universidade de Lisboa
E-mail: carvalho@ctn.tecnico.ulisboa.pt

Co-funded by the Erasmus+ Programme of the European Union

Instituto Superior Técnico (IST)

- It was founded in 1911. Today, with a community of more than 12000 people, IST is the largest school of Architecture, Engineering, Science and Technology in Portugal.
- IST is today, with its approximately 11,000 students from more than 60 different nationalities, a school strongly internationalized, open to society, companies, innovation, entrepreneurship, the creation of employment, value and knowledge.
- It is an institution recognized, inside and outside Portugal, for the quality of what it does.

The Instituto Superior Técnico operates in three campi

Tagus park in the city of Oeiras (outside Lisbon).
Research centres and start ups.

Alameda: Central campus with the schools and laboratories, In Lisbon

Campus Tecnologico e Nuclear, near Loures (outside Lisbon).
Research centres.

Teaching and Research Units

Departments 10

- Department of Bioengineering (DBE)
- Department of Engineering and Nuclear Sciences (DECN)
- Department of Civil Engineering, Architecture and Georesources (DECivil)
- Department of Electrical and Computer Engineering (DEEC)
- Department of Engineering and Management (DEG)
- Department of Computer Engineering (DEI)
- Department of Mechanical Engineering (DEM)
- Department of Chemical Engineering (DEQ)
- Department of Physics (DF)
- Department of Mathematics (DM)

Cross Structures 3

- IST Energy Initiative (IST-EI): “Sustainable Campus”
- IST Environmental Science and Engineering Platform (IST-Environment)
- Nanotechnology and Materials Engineering Platform (IST-NM)

IST's own Research Units 19

- Center for Functional Analysis, Linear Structures and Applications (CEAFEL)
- Center for Mathematical Analysis, Geometry and Dynamical Systems (CAMGSD)
- Astrophysics and Gravitation Center (CENTRA)
- Center for Science and Technology for the Environment and the Sea (MARETEC)
- Center for Nuclear Science and Technology (C2TN)
- Center for Naval and Ocean Engineering and Technology (CENTEC)
- IST Management Studies Center (CEGIST)
- Center for Studies in Innovation, Technology and Development Policies (IN+)
- Center for Advanced Materials Physics and Engineering (CeFEMA)
- Center for Theoretical Physics of Particles (CFTP)
- Center for Computational and Stochastic Mathematics (CEMAT)
- Structural Chemistry Center (CQE)
- Center for Natural Resources and Environment (CERENA)
- Center in Territory, Urbanism and Architecture (CiTUA)
- Institute of Bioengineering and Biosciences (iBB)
- Institute for Research and Innovation in Civil Engineering for Sustainability (CEris)
- Institute of Plasmas and Nuclear Fusion (IPFN)
- Institute of Systems and Robotics (ISR)
- Institute of Interactive Technologies (ITI)

IST Associated Research Units 5

- Instrumentation and Particle Physics Laboratory (LIP)
- Institute of Systems and Computer Engineering – Microsystems and Nanotechnologies (INESC-MN)
- Institute of Systems and Computer Engineering – Research and Development in Lisbon (INESC-ID)
- Institute of Mechanical Engineering (idMEC)
- Telecommunications Institute (IT)

MENV PRO

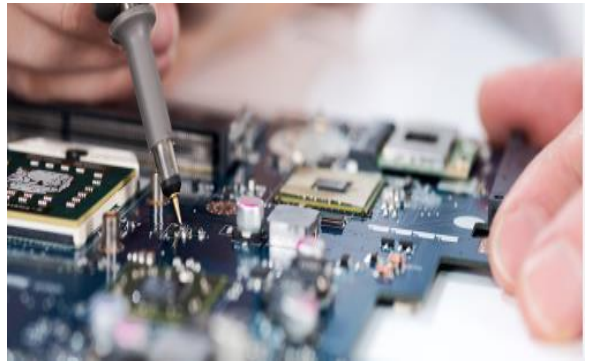
IST (cont.)

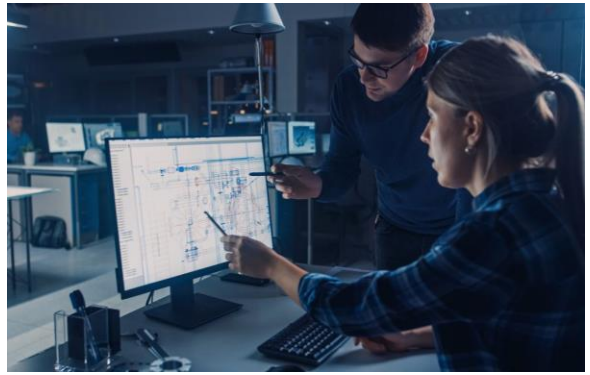
Specialized Units 5

- IST Press
- IST Analysis Laboratory (LAIST):
  - the Center for General Applied Water Analysis
  - the Organic Compounds Analysis Nucleus
  - the Core Metals and Solid Sample Preparation
  - the Crop Management, Environment, Health and Safety Center
  - the Microbiology Nucleus – Classical and New Technologies
- IST Innovation Laboratory (iSartLab)
- IST Electronic Microscopy Laboratory (Microlab)
- IST Workshops Center (NOF)

Facts and figures

44%	Students employed before completing the course.
91%	Graduates employed up to 6 months after completion of the course.
73%	2nd Cycle graduates employed in the training area.
10,987	Number of students that Técnico welcomes (three cycles of studies).
1,915	Scientific publications on ISI Web of Science.
58	Spin-off companies created at Técnico since 2009.
3	The Técnico has three campuses (Alameda, Taguspark and Tecnológico e Nuclear).
3	Técnico's university residences located in different parts of the Lisbon area.
31%	International PhD students.
70	Researchers in the best 2% world CVs (according to a study by Stanford University, US)





IST's training offer:

a diverse range of 1st, 2nd and 3rd cycle courses

19 1st cycle courses

Ex.:

- Aerospace Engineering
- Environmental Engineering
- Biological Engineering
- Biomedical Engineering
- Civil Engineering
- Electronic Engineering
- Electrical and Computer Engineering
- Technological Physical Engineering
- Engineering and industrial management

32 master's programs

Ex.:

- Bioengineering and Nanosystems
- Biotechnology
- Bioengineering: Regenerative and Precision Medicine
- Science and Technologies for Cultural Heritage
- Aerospace Engineering
- Environmental engineering
- Biological Engineering
- Biomedical engineering

33 doctoral programs

Ex.:

- Environmental Engineering
- Biomedical Engineering
- Civil Engineering
- Computational Engineering
- Electrical and Computer Engineering
- Engineering and Management
- Computer and Computer Engineering
- Materials Engineering
- Naval and Ocean Engineering
- Petroleum Engineering

Co-funded by the
Erasmus+ Programme
of the European Union

To know more please visit:
https://tecnico.ulisboa.pt

Thank you for your kind attention!

Fernando P. Carvalho, PhD
E-mail: carvalho@ctn.tecnico.ulisboa.pt

TÉCNICO LISBOA

ENV PRO