Towards a new decade

Purpose
Promote new frontiers of knowledge in strategic themes, through the advancement of high-level education, research, and commercialization activities.

launched in 2007

⇂

partnership renewed in 2018

⇂

towards a new decade until 2030

Contacts

Office in Portugal
INESC TEC
Rua Dr. Roberto Frias,
4200-465 Porto,
Portugal
(+351) 222 094 019

Office in Austin
Cockrell School of Engineering
The University of Texas at Austin
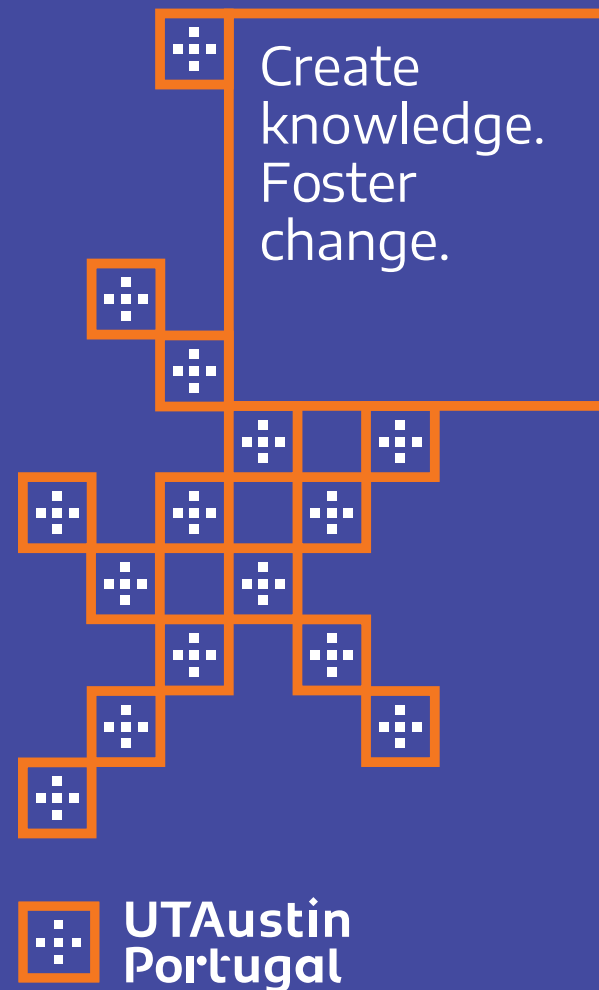301 E. Dean Keeton St. C2100
Austin, Texas 78712-2100
(+1) 512-475-8953

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info@utaustinportugal.org
www.utaustinportugal.org

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FCT Fundação para a Ciência e a Tecnologia
TEXAS The University of Texas at Austin

Create knowledge. Foster change.

UTAustin Portugal

UT Austin Portugal Program

Vision
Develop a knowledge-based society, and foster science and innovation-based companies to help Portugal face the challenges of the future.

Mission
Address a number of knowledge areas where scientists and companies in Portugal engage with the University and other institutions in Texas in multidisciplinary research and technology transfer and commercialization.

UT Austin Portugal Program

program areas

Advanced Computing

High Performance
Computing,
Quantum Computing,
Data Science
and Visualization

Medical Physics

Emerging Cancer
Therapies

Space-Earth Interactions

Space Technologies
Sea
Climate
Clean Energy

Nanotechnologies

Materials for
New Markets

TIE | UTEN

University Technology
Enterprise Network

instruments

research

Exploratory
Research
Projects

Strategic
Research
Projects

education

Advanced Training
Programs

Research
Exchanges

innovation

Training

Mentoring

Residency in Austin

Industry Affiliates

for tech startups

New program areas and instruments

Advanced Computing
Advancing Computing underpins most of Science, Technology, Engineering and Mathematics (STEM) impact in today's society. Simulation of complex physical and chemical systems, big data analytics, and training of deep neural networks pave the way for a whole new generation of exascale computing infrastructures worldwide.
This program area will promote and support joint projects and training actions on high performance and high throughput computing systems, quantum computing, data management and visualization, aiming at better exploiting the use of advanced computing facilities, at the Texas Advanced Computing Center, Portugal and Europe in a variety of domains, including cities, agriculture, fisheries, space-earth observation, security, and health applications.

Medical Physics
The application of concepts and methods of physics to the diagnosis and treatment of pressing human diseases is emerging as a revolutionary approach to some new challenges that healthcare faces nowadays.
This program area fosters the establishment of new joint ventures among UT Austin's Dell Medical School and Cockrell School of Engineering, UT's MD Anderson Cancer Center, and Portuguese research groups in medical physics, proton therapies, and radiation oncology. Aligned with the national strategy for the development of high energy particle beam therapies for cancer treatment, this initiative intents to boost the advanced training of oncology radiology experts.

Nanotechnologies
The areas of nanoscience and nanotechnology have demonstrated to have a tremendous impact in areas as health, the environment, energy, transportation, and information technology.
This program area establishes a new research and innovation agendas, involving complex materials engineering and science focused on an integrative approach to nanoscience, over diversified applications. Further research will focus on the discovery and development of innovative nano materials, with a range of unique properties suitable for applications in space applications, sensing, the internet of things, information technology and energy harvesting and storage, with the engagement of the International Iberian Nanotechnology Laboratory (INL) and other research organizations in Portugal, as well as the various related initiatives at UT Austin, including the NSF Materials Research Science and Engineering Center (MRSEC) for Dynamics and Control of Materials (CDCM).

Space-Earth Interactions
UT Austin Portugal foresees a new research agenda involving transatlantic and north-south cooperation in complex engineering systems and science towards an integrative approach to space technologies, sea, climate and clean energy.
The program's agenda on this area will focus on exploiting the potential of integrating spaceborne, airborne, marineborne, along with underwater, data, towards a better understanding of the ocean, including deep sea areas, and its interactions with the earth and the atmosphere, aiming to improve predictive capabilities under climate change scenarios. This research will be developed together with the installation of the Atlantic International Research Center (AIR Center) which aims at creating a federated network for the management and processing of Atlantic data ranging maritime safety to the identification of biological resources, fisheries, the impact of climate change.

TIE | UTEN
Building on the scientific achievements in Portugal during the last decade, TIE | UTEN provides a comprehensive early venture assessment strategy, leveraging its previous high-impact work in transforming science into valuable technologies for businesses and helping Portuguese startup to attain success globally.