



TÉCNICO LISBOA

INTERNATIONAL STUDENT GUIDE

ENGINEERING, ARCHITECTURE, SCIENCE AND TECHNOLOGY

A School for the World

“We believe in those that think differently, in those that may one day change the world with a brilliant new idea or new technology.”

Dear Students,

I welcome you to Técnico, the best engineering school in Portugal and one of the best in the world.

The quality of Técnico is a result of many factors that include the quality of our faculty, the excellence of our research and the culture of excellence that has been a hallmark of our school for more than one hundred years.

However, the quality of its students is the characteristic that is truly unique in our school and that sets Técnico apart from other similar schools, making it one of the best engineering schools in the world. We receive very talented students, from Portugal and abroad, and we provide them with an education that puts our graduates, scientists, engineers and architects, amongst the best in Portugal.

Técnico has educated many generations of leaders and many of them have helped in the transformation and development of Portugal, Europe and the world. Our graduates are our best ambassadors because they show the world the quality of our school.

By choosing Técnico, you will have access to a world level education, you will be exposed to ideas that are at the cutting edge of science and technology and you will be living in a unique environment, located in the center of a cosmopolitan city, Lisbon. You will also be part of a network that includes the top schools of Europe in science and technology, providing you with unique opportunities for mobility and international exposure. You will belong to a uniquely international community that now counts more than 11.000 students, 700

professors, 25 research centers and more than 1.000 researchers.

You will have access to educational and scientific infrastructures that are unique in the country, distributed by the three campuses of Técnico. They will enable you to acquire a theoretically sound but also practical hands-on education on a variety of technical subjects that are at the forefront of science and technology. You will also be a part of the University of Lisbon, the largest and most competitive university in Portugal.

The education that you will receive here will open the doors to top-level positions in large, medium and small companies, but will also give you the skills to launch your own company, creating value for the country and for the world. The research driven education that is a hallmark of Técnico will also give you the possibility to choose a career in academia, in any top institution in the world.

At Técnico, we value mostly the talent and independent thinking of our students. We believe in dreamers, in students that do not accept the status-quo and that challenge us by asking “why?”, “how does it work?” or “how do you build it?”. We believe in those that think differently, in those that may one day change the world with a brilliant new idea or new technology.

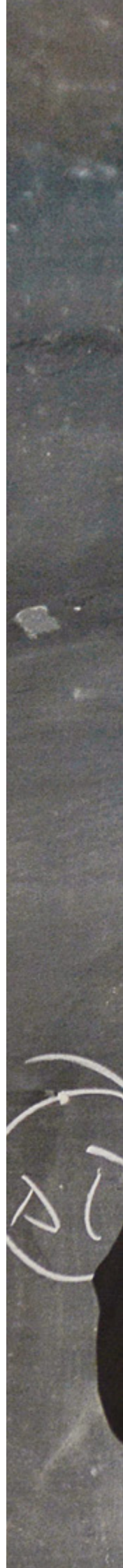
I invite you to become familiar with our many different offers in engineering, technology, science and architecture, which represent an unmatched set of challenges and opportunities for those that have the talent, the will and the ability required to study here.

I look forward to welcoming you at Técnico Lisboa.

Arlindo Oliveira

President

arlindo.oliveira@tecnico.ulisboa.pt





Our Academic Programmes*

Undergraduate Programmes (3 years)

Applied Mathematics and Computation
Computer Science and Engineering
Electronics Engineering
Geological and Mining Engineering
Industrial Engineering and Management
Materials Engineering
Naval Architecture and Marine Engineering
Telecommunications and Informatics Engineering

Integrated Masters programmes (5 years)**

Aerospace Engineering
Architecture
Biological Engineering
Biomedical Engineering
Chemical Engineering
Civil Engineering
Electrical and Computer Engineering
Environmental Engineering
Mechanical Engineering
Technological Physics Engineering

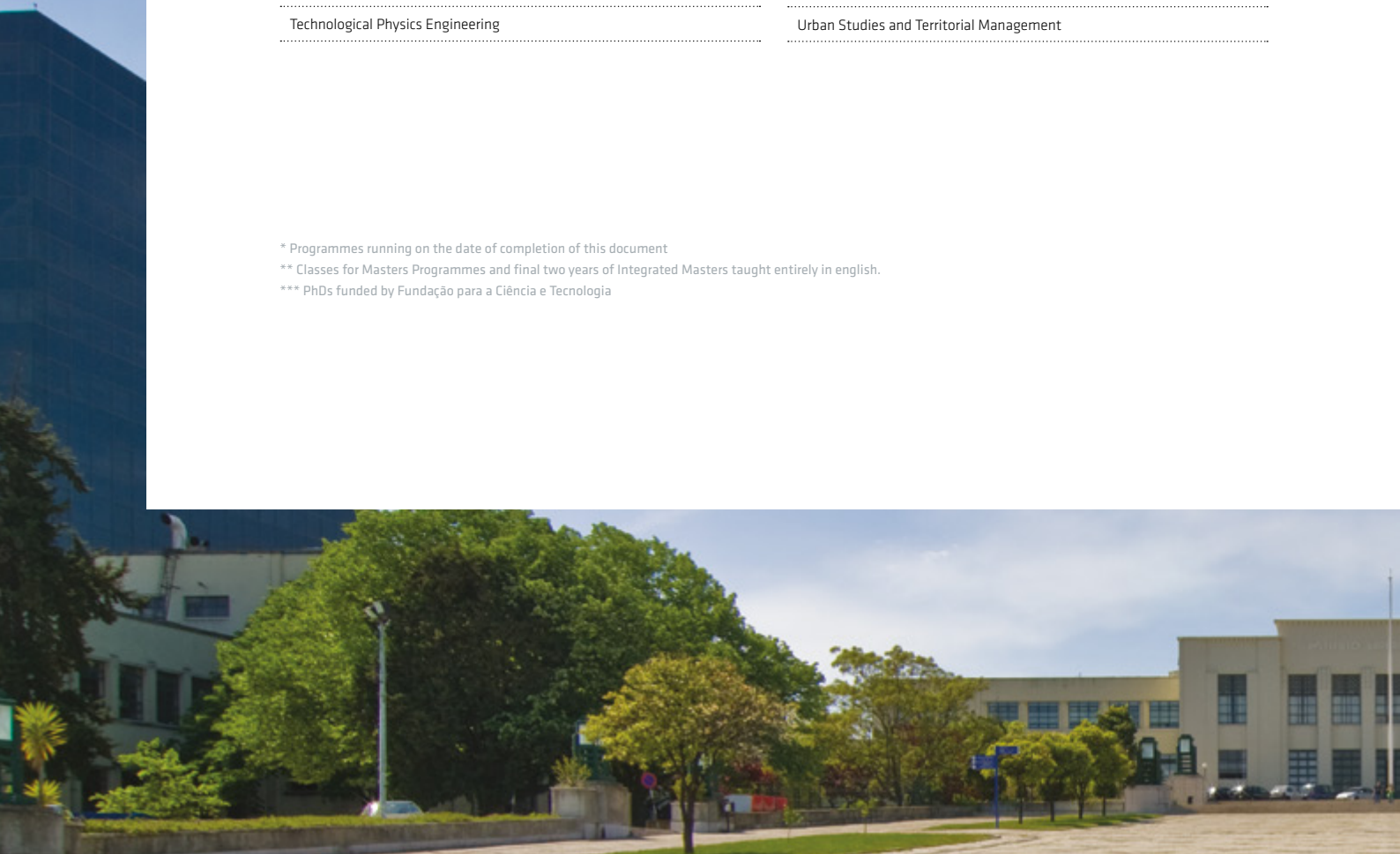
Masters Programmes (2 years)**

Bioengineering and Nanosystems
Biomedical Technologies
Biotechnology
Chemistry
Complex Transport Infrastructure Systems
Computer Science and Engineering
Construction and Rehabilitation
Electronics Engineering
Energy Engineering and Management
Engineering and Water Management
Geographic Information Systems
Industrial and Engineering Management
Information Security and Cyberspace Law
Materials Engineering
Mathematics and Applications
Microbiology
Mining and Geological Engineering
Naval Architecture and Marine Engineering
Petroleum Engineering
Pharmaceutical Engineering
Telecommunications and Informatics Engineering
Transport Infrastructure Engineering
Transport Planning and Operation
Urban Studies and Territorial Management

* Programmes running on the date of completion of this document

** Classes for Masters Programmes and final two years of Integrated Masters taught entirely in english.

*** PhDs funded by Fundação para a Ciência e Tecnologia



Advanced Training Programmes (1)

Geotechnics for Civil Engineering

Information Systems

Marine Renewable Energies

Refining, Petrochemical and Chemical Engineering

Risks Assessment, Safety and Reliability

Sustainable Energy Systems

Technology Management Enterprise

Specialization Programmes (1)

Lean Six Sigma Black Belt

(1) Meeting the professional challenges increasingly demanding, Técnico Lisboa offers a top training specialized programmes. We provide a vast and wide-ranging course supply, especially in science and technology, which is essential to assume a growing position worldwide.

Fundação para a Ciência e Tecnologia PhDs***

Advanced Integrated Microsystems

Advanced Materials and Processing

Advanced Program in Plasma Science and Engineering

Analysis and Mitigation of Risks in Infrastructures

Applied and Environmental Microbiology

Bioengineering - Cell Therapies and Regenerative Med.

Biotechnology and Biosciences

Catalysis and Sustainability

Eco-Construction and Rehabilitation

Environmental Hydraulics and Hydrology

Inter. Doctorate Network in Particle Physics, Astrophysics and Cosmology

Lisbon Mathematics PHD

Materials Chemistry

Networked Interactive Cyber Physical Systems

Physics and Mathematics of Information

River Restoration and Management

Robotics, Brain and Cognition

PhD Programmes (3-5 years)

Aerospace Engineering

Architecture

Bioengineering

Biomedical Engineering

Biotechnology

Chemical Engineering

Chemistry

Civil Engineering

Climate Changes and Sustainable Development Policy

Computational Engineering

Computer Science and Engineering

Earth-Resources

Electrical and Computer Engineering

Engineering and Management

Engineering and Public Policy

Environment Engineering

Information Security

Leaders for the Technical Industries

Materials Engineering

Mathematics

Mechanical Engineering

Naval Architecture and Marine Engineering

Petroleum Engineering

Physics

Refining, Petrochemical and Chemical Engineering

River Restoration and Management

Statistics and Stochastic Processes

Sustainable Energy Systems

Technological Changes and Entrepreneurship

Technological Physics Engineering

Territorial Engineering

Transportation Systems



Key Facts



13%

International MSc Students



1.302

PhD Holders (Professors and Researchers)



3 Campuses

Campus Alameda
107.137 m²

Campus Taguspark
19.380 m²

Campus Tecnológico e Nuclear
16.510 m²

24%

International PhD Students

2.046

Scientific publications
(ISI Web of Science)



32

PhD Programmes



11.500

Students



43%

Students employed before
completing their programme

19

Undergraduate Programmes

54%

Undergraduate Students

86%

Students employed up to 6
months after completing their
programme

28

Masters Programmes

46%

MSc and PhD Students

46

Técnico Spin-offs

Internationalisation

Combining international, intercultural and global dimensions in research and education, allows Técnico to offer, in a stimulating environment, a higher education pursuant to the highest international standards as well as top level Research, Development and Innovation (RD&I) activities.

To promote international visibility and attract foreign students, researchers and professors Técnico invests significantly in international partnerships (e.g. EIT-KIC InnoEnergy, SEESEP-Sino-EU platform) and in a select number of international networks (e.g. CLUSTER, MAGALHÃES, TIME, CESAER).

In the last decade, Técnico has promoted and expanded the availability of double degrees (more than 50 currently available) and credit mobility master's and doctoral Programmes, not only by establishing bi/multi-lateral agreements (e.g. IST-EPFL Joint Doctoral Initiative, SESE), but also through international programmes such as ERASMUS MUNDUS, KIC Education and SMILE.

Participation in Networks:

CLUSTER, EIT-KIC InnoEnergy, TIME, CESAER, MAGALHÃES, ATHENS

Joint Partnerships and PhD programmes:

MIT, CMU, UT Austin, EPFL

ERASMUS MUNDUS Programmes (MSc and PhD):

euSYSBIO, EMDC, IDS-FunMat, EMJD-DC, SELECT + FUSION DC, SEED, NAMASTE, EXPERTS4ASIA, WELCOME, HERITAGE, ANGLE, EUROEAST, SMART2, GROUNDWATCHCH

EIT-KIC Programmes (MSc and PhD):

ENTECH, RenE, SELECT and CLEAN-COAL (Double Msc.); PhD in Sustainable Energy Systems for Renewables

Mobility Programmes:

ERASMUS +, SMILE, cooperations with Australia, Brazil, China, Canada, Japan, India, Russia and Thailand.

Professional internships abroad:

ERASMUS PLACEMENTS, IAESTE, VULCANUS

MIT Portugal

UT Austin | Portugal

SINO-EU



Carnegie Mellon | PORTUGAL

KIC InnoEnergy



CESAER

ATHENS NETWORK



R&D at Técnico

Técnico Lisboa is nowadays a reference in everything concerning culture, learning, environment, methodology and results.

Research at Técnico is carried out in centres and institutes that pursue challenging research programmes in topics that are scientifically and socially relevant.

These Areas of Research are often intertwined together and many centers are interdisciplinary, working in multiple areas, crossing domains of competence and application. Research programmes range from long-term initiatives to more applied research with the involvement of industry.

Major research areas at Técnico:

1

Fundamental Sciences

Physics, Mathematics,
Chemistry

2

Applied Life Sciences

Bioengineering, Cellular
Biology, Biotechnology,
Biomedical Engineering,
Genomics and Systems
Biology, Biological Systems
Modelling

3

Energy, Environment and Mobility

Sustainable Development,
Energy and Environmental
Engineering, Land Use
Planning, Urban Planning
and Construction, Transport
Systems

4

Production Engineering and Technology

Aerospace Engineering,
Process Engineering,
Manufacturing, Marine
Technologies

5

Technology Management and Entrepreneurship

Risk Decision and Analysis,
Management and
Economics, Innovation and
Entrepreneurship, Public
Policies

6

Materials, Microtechnology and Nanotechnology

Electronic, Biological and
Biomedical Devices, Micro
and Nano Technologies,
New Materials and Applied
Materials

7

Information and Communication Technologies

Computing, Computer
Engineering, Computer
Systems, Systems and
Robotics, Telecommunications



Life at Técnico

Sports

Recognizing the importance of sports activities, due to their social, cognitive and affective dimensions, the Students Union of Técnico Lisboa (AEIST), offers all its students several sports activities such as Basketball, Football, Rugby, among many others. There is also an indoor swimming-pool, a multi-sports field, a tennis court and a gym-sports pavilion.

Types of sports existing at Técnico:

Men's Handball	Rugby
Women's Basketball	Surf/Body Board
Men's Basketball	Tennis
Football	Women's Volleyball
Women's Futsal	Men's Volleyball
Men's Futsal	
Water Pool	

Culture

Cinema, theatre, music, painting, academic journalism, photography, radio, among other activities have grown in importance at Técnico, contributing to stimulate and develop students' critical spirit and creative potential. The academic Tunas, such as TUIST, TFIST and TMIST, play a fundamental driving role in the academic culture and promotion of Técnico, both nationally and internationally: More than 40 thematic student groups contribute towards this goal.

Cultural units at IST:

CinemaparaIST (Técnico's Cinema Unit)	Técnico's Traditional Song Group
Diferencial (Técnico's Student Newspaper)	NAF (Técnico's Phtography Art Unit)
GTIST (Técnico's Theatre Group)	Pulsar (Técnico's Physics Unit Journal)
Radio Zero	

Health

Health services at Técnico Lisboa offer a wide variety of medical assistance and support on campus and have direct ties to city hospitals in case of emergency.

Some recent achievements



Rankings

“15th Best Engineering School in Europe”

Técnico was ranked the **15th Best Engineering School in Europe** by US News and among the 20 best in the Shanghai ranking.

“1st among the best Engineering Schools in Portugal”

Técnico was ranked **first among the best Engineering Schools in Portugal**, in US News and Shanghai rankings.



Entrepreneurship Highlights

Talkdesk and Unbabel, two of Técnico's spin-offs, have raised respectively USD 3.15 million and USD 1.5 million, in California.

Gatewit and Siscog, members of Técnico's spin-off community, were distinguished among the Best Places to Work in Portugal, according to a survey carried out by Exame/Accenture.

Técnico's alumni, Jaime Jorge, won the world pit competition in the Dublin Web Summit with Codacy platform, which detects software errors automatically.

Joana Baptista and her team have developed **‘Through My Eyes’, an application that won the last Vodafone Big Apps Lisbon edition.** Organized by Vodafone in partnership with the Lisbon City Hall, this competition rewards the best apps for Lisbon.

Digisfera is a startup established by Técnico's alumni that engaged in the area of high resolution photography. Digisfera covered the soccer World Cup and Obama's swearing-in ceremony with the production of gigapixel images that enables identification of people on-screen.





Projects and Awards

The Association of Energy Engineers, the largest international engineering association in the area of energy, **distinguished the Técnico's Sustainable Campus as the International Energy Project of the Year 2014.**

Professor Mário Figueiredo, researcher at IT, has recently become part of the ISI Thomson Reuters "Highly Cited Researchers".

Bruno Faria, a **graduate from Técnico**, and responsible for the Department of Geophysics of the National Institute of Meteorology and Geophysics of Cape Verde, **predicted the vulcano eruption of the Fogo Island in 2014, two days in advance.**

Técnico's students Andela Zaric and Catarina Cruz, who are also researchers at IT, **won the "2014 IEEE Student Design Contest" final in Memphis, TN**, which consists in developing a prototype for identifying and managing blood test packages by RFID tags..

Técnico's graduate **Ricardo Cabral created the Google Maps Indoor algorithm.**

A consortium formed by Técnico Lisboa, through its Instituto de Plasmas e Fusão Nuclear (IPFN) and by Technical University of Denmark (DTU) won a research contract in the amount of EUR 2 million, for the development of microwave diagnosis at ITER, the world's foremost facility for nuclear fusion.

Técnicos's graduate Paulo Melo was ranked first in the Fraunhofer Portugal Challenge 2014.

"Portal da Sabedoria", a project of 2 Técnico's students, Francisco Lopes and Rogério Jorge, **won the first edition of the Novabase GameShifters competition.**

Jorge Santos, a Técnico alumni and currently Professor at the University of Cambridge (United Kingdom) and Researcher at Stanford (California, US), **was awarded the famous 2014 "General Relativity and Gravitation Young Scientist Prize" edition.**

Professor **Vitor Cardoso was awarded a grant from the European Research Council (ERC), amounting to EUR 1.5 million.**

Técnico's FST Novabase project, a student team dedicated to the construction of an electrically powered competition vehicle, **was ranked 3rd in three competitions that took place in Silverstone, and 5th in the overall ranking of University Formula 1.**

Técnico students, Ana Lessa and Daniel André, **won the "Brilliant Young Entrepreneurs" competition promoted by Hyundai and JA-YE Europe.**

Técnico Civil Engineering student Teresa Salvador won the 2014 Scott Lofgren Student Design edition, promoted by the Bentley Student Design Competition.

Técnico's student André Santiago was ranked second in the "Future Ideas Innovation Thesis Competition 2014", which took place in Venice, Italy.





MOBILITY PROGRAMMES ALL OVER THE WORLD

01 - **Germany**

02 - **Armenia**

03 - **Argentina**

04 - **Austria**

05 - **Bangladesh**

06 - **Belgium**

07 - **Brazil**

08 - **Bulgaria**

09 - **Canada**

10 - **Chile**

11 - **China**

12 - **Cyprus**

13 - **Colombia**

14 - **Costa Rica**

15 - **Croatia**

16 - **Denmark**

17 - **Ecuador**

18 - **Egypt**

19 - **Estonia**

20 - **Slovakia**

21 - **Slovenia**

22 - **Spain**

23 - **Ethiopia**

24 - **Finland**

25 - **Fiji**

26 - **France**

27 - **Georgia**

28 - **Greece**

29 - **Hungary**

30 - **India**



31 - Indonesia

37 - Macedonia

43 - Netherlands

49 - Czech Rep.

55 - Sri Lanka

32 - Israel

38 - Morocco

44 - Pakistan

50 - Romania

56 - Thailand

33 - Italy

39 - Mexico

45 - Poland

51 - Russia

57 - Turkey

34 - Jordan

40 - Mozambique

46 - Qatar

52 - Serbia

58 - Ukraine

35 - Lithuania

41 - Norway

47 - Kenya

53 - Sweden

59 - Venezuela

36 - Macau (China)

42 - New Zealand

48 - United Kingdom

54 - Switzerland

60 - Vietnam



Admission

Applications for our many programmes run throughout the year.

For specific dates to apply you should go to the candidate's site at: tecnico.ulisboa.pt/en/prospective-students/admissions/, fill the application form and attach the required documentation.

The online application system will issue a username and a password that will allow you to edit your personal information anytime.

Your application will only be considered "Valid" after submission of all documentation and payment of the application fee.

Tuition fees

Application fee:
€100,00

**Tuition fee
(non-EU nationals) :**
€7000 (Bachelor and
Masters degree)
€2750 (PhD degree)

**Tuition fee
(EU nationals):**
€1100€ (bachelor and
masters degrees)
€2750 (PhD degree)

Fees above are indicative.
For further details, go to
the candidate **site**, or send
an email to:
[academica@tecnico.
ulisboa.pt](mailto:academica@tecnico.ulisboa.pt)

More information about
Studying in Portugal
can be obtained from
studyinportugal.edu.pt



What do you need to do before travelling to Portugal?

Students from EU countries are not required to have a VISA to study in Portugal. Non-European Students should contact the Portuguese consular representative (Embassy or Consulate) in their home country to request information about the VISA application process.

Depending on the duration of your stay in Portugal, one of the following visas can be requested (visas cost up to 170 Euro and can take up to 2-3 months to be issued):

- A short-term visa for a maximum of three months (valid for 3 months);
- A temporary stay visa for periods longer than three months (valid up to one year);
- A residence visa

Necessary documents (may be different from country to country):

- Valid Passport expiring no earlier than 3 months after returning home and with at least one blank visa page;
- One passport size photograph in color;
- Letter of Acceptance / Admission at Técnico Lisboa;
- Residence Letter with a Portuguese address;
- Proof of Means of Subsistence (statement of monthly allowance/scholarship/grant);
- Proof of Health Insurance Coverage;
- Valid Travel Document

For further information, please contact **International Affairs office at Técnico: nmci@tecnico.ulisboa.pt**

Traveling to Portugal

Situated in the extreme south-west of Europe, just a few hours away from the major European capitals, Portugal attracts students from all over the world.

Lisbon's excellent geographical position in the country, makes it a stopover point for many foreign airlines. In fact, this city is easily reachable from anywhere in Europe, from Brazil, North-America and the Middle East through all major airlines and more than 50 low cost connections.

Accommodation

Most of our exchange students rent a room in a shared house. The other option is to live in a university residence.

In Portugal, the size of apartments is classified by the code T# (e.g. T0 - Studio, with a separate bathroom, T1 - 1 bedroom and living room, T2 - 2 bedroom and living room, etc).

The best areas to live in near Técnico are: Alameda, Arco do Cego, Areeiro, Arroios, Campo Pequeno, Estefânia, Praça de Londres and Saldanha. These areas are located within a 15 minute walking distance from the Alameda Campus. Transport to the Taguspark Campus is provided by a free bus service between the Alameda and Taguspark campuses.

University residences:

Técnico has three residences, each with different characteristics, locations and prices:

- 1 Residência Prof. Ramôa Ribeiro
Campus Taguspark
- 2 Residência Universitária Baldaques
Lisboa (downtown Lisboa)
- 3 Residência Eng. Duarte Pacheco
Parque das Nações



For further information, please contact the
International Affairs office at Técnico: nmci@tecnico.ulisboa.pt

Cost of Living in Lisbon

The cost of living in Portugal is lower than in most EU countries. Depending on the type of accommodation that you choose, you will end up spending more, or less during your stay. The following numbers give you an idea of an average monthly budget for a student in Lisbon.

Expenses	Average Price
Accommodation	300€/ 450€
Meals	200€ /250€
Transport	35€/ 40€
Leisure	100€/ 120€
University (books, etc..)	50€
Total	685€/ 910€



Cost of Living in Portugal

Articles	Average Price
Coffee	0.65 €
Coke (33cl)	1.20 €
Bottle of water 50cl (Cafeteria)	1.00 €
Cinema ticket	5.20 €
Daily newspaper	1.50 €
Disco admission	10.00 €
Full meal near Técnico	7.00 €
Full meal at the Técnico canteen	2.50 €
Burger Menu	5.00 €
Bread Unit	0.15€
Subway ticket	1.40 €
Carris bus ticket	1.80 €
1 Beer (Bar)	3.00 €
1 Beer (Supermarket)	0.80 €
1 lt Petrol	1.60 €



10 Reasons for choosing to study in Lisbon

- 01 Education of Excellence
- 02 Fees and Cost of Living
- 03 Accommodation and Housing
- 04 Sports and Climate
- 05 Multiculturalism and Hospitality
- 06 Culture and Creativity
- 07 Security
- 08 A Green City
- 09 Leisure and Entertainment
- 10 A Cosmopolitan City which is Open to the World



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Campus Tecnológico e Nuclear

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