



**Ciências**  
**ULisboa**

**research**

investigação investigação

forschung recherche

**innovation**

inovação innovación

innovation innovation

**education**

ensino enseñanza

studium formation

**society**

sociedade sociedade

gesellschaft société

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# welcome

Welcome to the Faculty of Sciences, one of the largest faculties at Portugal's biggest and most prestigious university - the University of Lisbon (ULisboa).

We take pride in the quality of our research and the teaching we provide to thousands of young people.

We embrace a wide range of scientific areas.

We value the knowledge we generate.

We stimulate scientific curiosity.

We fulfil our mission on a daily basis: expanding the boundaries of knowledge in science and technology, spreading this knowledge to society and enhancing our students' education through research and by fostering a culture of lifelong learning, promoting critical thinking and intellectual independence.

We strive to give life to the words of Garcia de Orta, written over 450 years ago, that we have adopted as our motto:

*What we do not know today, we will tomorrow.*

Come and meet us!

# the faculty of sciences

The Faculty of Sciences has modern facilities to enable high-level research and to actively encourage innovation. We are committed to preparing our students to distinguish themselves among their peers for their scientific and technical skills, empowering them to successfully face the challenges of society.

The size of our academic community and the diversity of the areas of knowledge provide a stimulating environment, where people from different scientific fields can easily interact.

**1911**  
year of  
establishment

**11** buildings

**10** departments

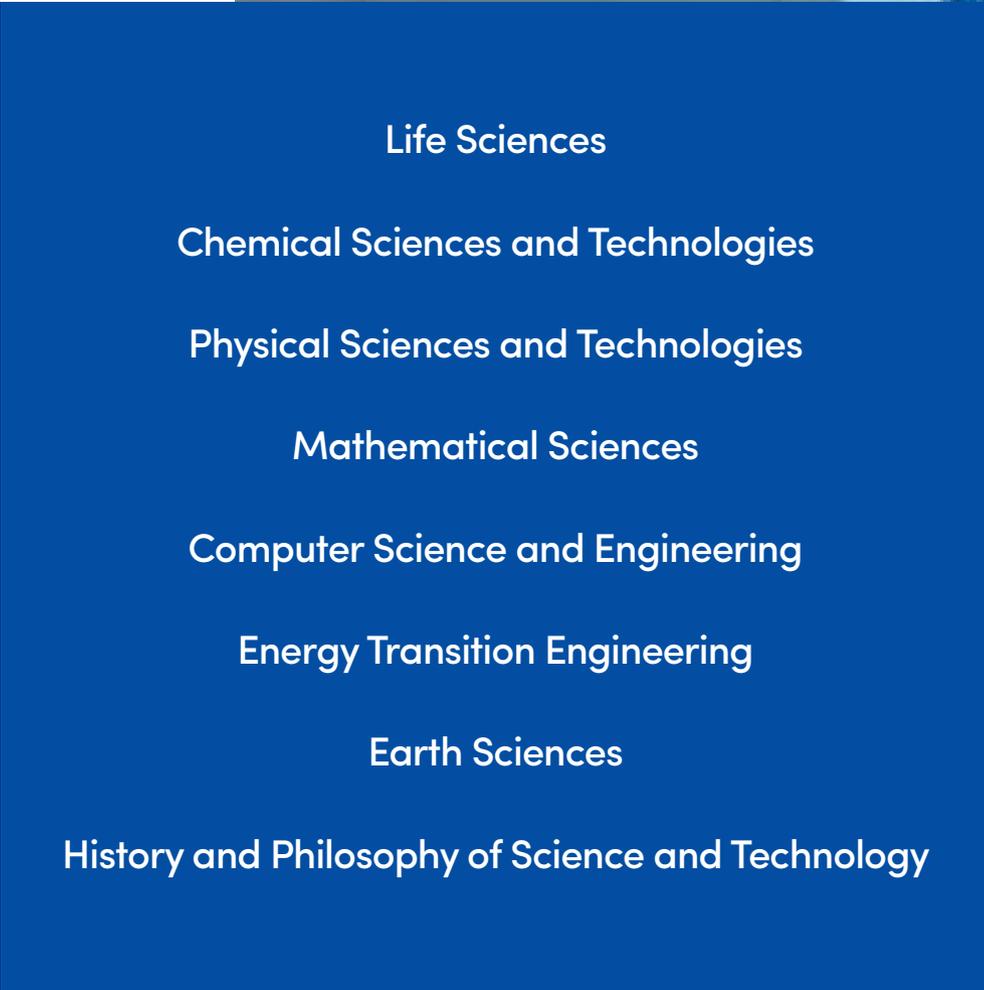
**23** R&D units

**+ 6000** academic community

**+ 5000** students

**+ 450** professors and researchers

**+ 150** technical and administrative staff



Life Sciences

Chemical Sciences and Technologies

Physical Sciences and Technologies

Mathematical Sciences

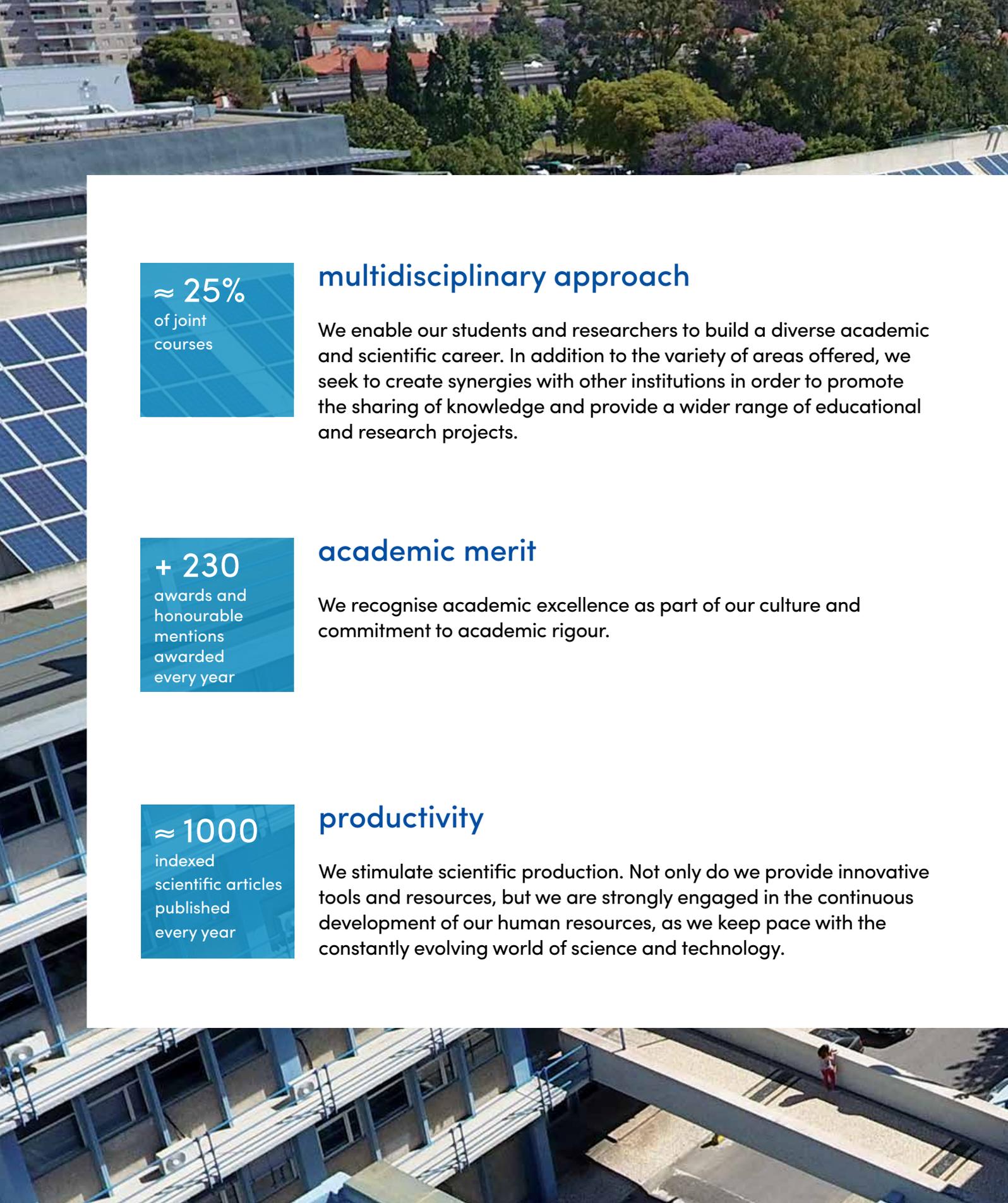
Computer Science and Engineering

Energy Transition Engineering

Earth Sciences

History and Philosophy of Science and Technology





≈ 25%

of joint  
courses

## multidisciplinary approach

We enable our students and researchers to build a diverse academic and scientific career. In addition to the variety of areas offered, we seek to create synergies with other institutions in order to promote the sharing of knowledge and provide a wider range of educational and research projects.

+ 230

awards and  
honourable  
mentions  
awarded  
every year

## academic merit

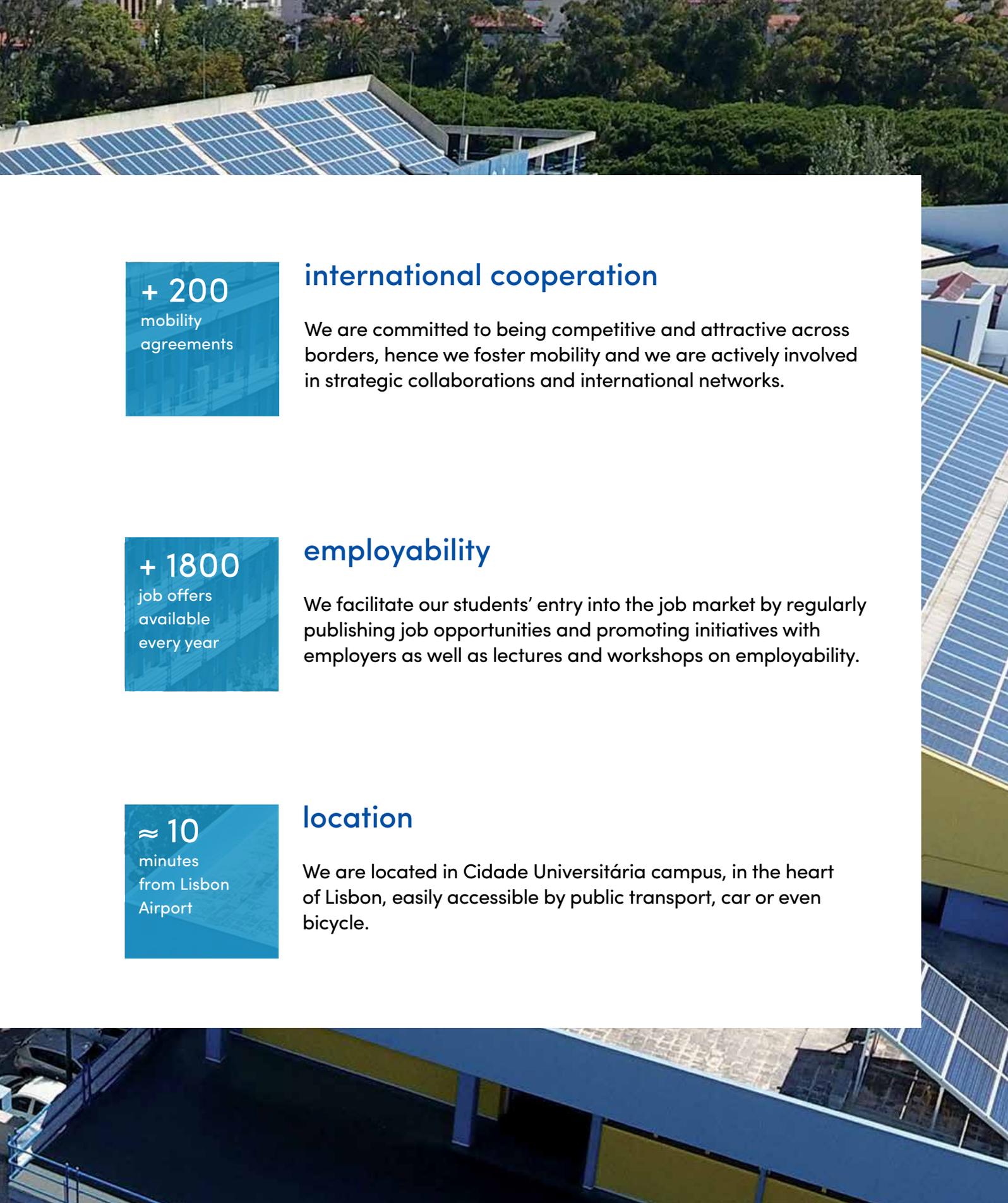
We recognise academic excellence as part of our culture and commitment to academic rigour.

≈ 1000

indexed  
scientific articles  
published  
every year

## productivity

We stimulate scientific production. Not only do we provide innovative tools and resources, but we are strongly engaged in the continuous development of our human resources, as we keep pace with the constantly evolving world of science and technology.



**+ 200**  
mobility  
agreements

## international cooperation

We are committed to being competitive and attractive across borders, hence we foster mobility and we are actively involved in strategic collaborations and international networks.

**+ 1800**  
job offers  
available  
every year

## employability

We facilitate our students' entry into the job market by regularly publishing job opportunities and promoting initiatives with employers as well as lectures and workshops on employability.

**≈ 10**  
minutes  
from Lisbon  
Airport

## location

We are located in Cidade Universitária campus, in the heart of Lisbon, easily accessible by public transport, car or even bicycle.

# research

Research is one of the pillars of the Faculty of Sciences. Our network of research and development (R&D) units are geared to the various fields of the exact and natural sciences, their technologies and engineering, and to interdisciplinary and cross-cutting areas.

The R&D activity of the various centres, institutes and laboratories, focus on both basic and applied projects, linked to the business, industrial and strategic development sectors. Their role is essential in advanced training, providing our students with the opportunity to participate in competitive R&D projects.

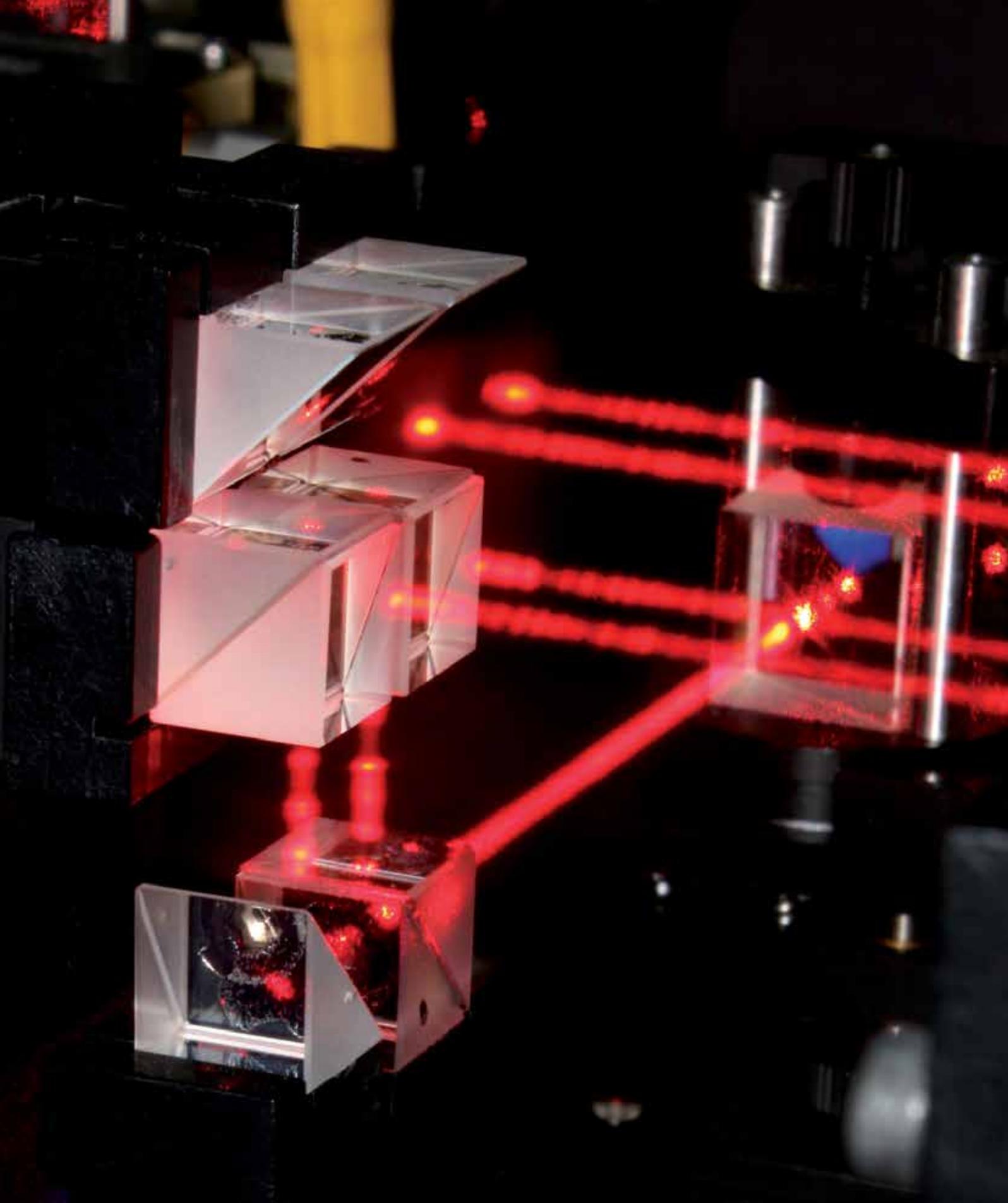
The rating of the R&D units of the Faculty of Sciences in the evaluation of the Portuguese Foundation for Science and Technology is proof of their quality at a national level. These units bring together professors and researchers from different scientific areas of the Faculty and from other Portuguese and foreign universities, promoting work in a stimulating and multicultural environment. Several of these highly qualified professionals integrate R&D networks or coordinate research teams, the results of which are often awarded and recognised among the international scientific community.

**95%**  
of the R&D units  
rated very good,  
excellent or  
exceptional

**+ 25%**  
of researchers  
belong to other  
universities

**≈ 500**  
active R&D  
projects  
every year

**≈ 26 M€**  
invested in R&D  
every year



# research innovation testimonials

*In the Faculty of Sciences I learned to seek solutions to the constant and demanding academic challenges. The diversity of people one gets to know, the relaxed study environment and the quality of the professors provide the right conditions to achieve excellent results. Here we are sure that only the best and most committed will graduate prepared to enter the demanding business world.*

*My experience at the Faculty of Sciences enabled me to found Novabase, right after I graduated, at the age of 24. I could not imagine, at that time, how much Novabase would grow! Most of the challenges I encountered were overcome by using the same method I used in the Faculty of Sciences: perseverance, resilience and a willingness to seek the best solutions to each specific problem.*

*The Faculty Sciences has all the ingredients to form excellent professionals and to stand shoulder to shoulder with any other reputable national or foreign faculty.*



*Pedro Carvalho*  
Administrator  
NovaBase

*As a researcher in the field of marine sciences, I have the privilege of being passionate about my work.*

*At the Faculty of Sciences I have excellent resources to carry out my research. For that reason, during the last few years, my professional career has always had the Faculty of Sciences in the back drop. It has been, and continues to be, a very enriching journey, full of challenges and lessons learned, which always fostered my professional and personal growth.*

*The commitment of the Faculty of Sciences to its researchers is undoubtedly essential for the development of outstanding science and for its integration in solving societal challenges.*



*Catarina Frazão Santos*  
Researcher  
Marine and Environmental Sciences Centre

*What I lived and learned at the Faculty of Sciences was fundamental for my personal and professional growth, which has been sustained and filled with successes.*

*The degree gave me the necessary background to plan and implement any technological solution, as well as a fantastic spirit of cooperation that I see as the brand of the Faculty of Sciences students. A few years later, the doctorate gave me the scientific tools to approach, divide and solve any problem.*

*All this enabled me at the age of 28 to win the IBM Scientific Award and, at 32, to become CEO of a Portuguese technology company whose products are part of the healthcare of over 7 million patients annually. Currently, the same technology is internationally recognized, with the participation in several international R&D projects where ground breaking technological innovations are being developed, and which will have a very positive impact on the lives of citizens.*



*Paulo Sousa*  
Chief Executive Officer  
Maxdata

*My connection to the Faculty of Sciences began when I was 17 and started my undergraduate course. At the age of 42, I started a master's degree and then entered a PhD in order to study something that, to this day, is still not offered as a subject. It was not an obvious choice for any faculty to accept the challenge of a student who had long since left academia to become an entrepreneur, and was seeking to embark on a completely new subject. The obvious academic risks far outweighed any potential academic benefits. For this very reason, I understood that the Faculty of Sciences was the place to do it, as it would demand from me the required level of rigour, whilst at the same time awarding me the requested innovation capital.*

*Today, a few years later, several other physicists work with me as a result of this endeavour, continuing the research work and putting those results to use in a commercial way.*



*João Pires da Cruz*  
Co-founder  
Closer

*My path at the Faculty of Sciences, from the time I was a student until my current position as a researcher, has been defined by the individuals who inspired and motivated me to go even further.*

*In addition, the cutting-edge research done at the Faculty of Sciences has contributed very significantly to my growth as a scientist. Initiatives in innovation and entrepreneurship promoted by the Faculty of Sciences, such as ScienceIN<sup>2</sup>Business, that recognized the innovative project in the area of cancer in which I participate, are important to bring fundamental research closer to the needs of society. This work has also led to the submission of an international patent.*



*Andreia Valente*  
Researcher  
Centre for Structural Chemistry

# innovation

The Faculty of Sciences is committed to adding economic value to knowledge, promoting a close collaboration with the business and industrial sectors. Technology transfer activities include the establishment of partnerships in innovative R&D projects, the provision of R&D services and the management of the intellectual property rights of the Faculty and its authors.

The Tec Labs - Innovation Centre is the hub of scientific and technological entrepreneurship initiatives. It is a modern company incubator, where specialised support is provided for the development of business ideas and their implementation.

In addition to encouraging the entrepreneurial penchant of its students and researchers, which are fundamental in a highly competitive job market, the Faculty of Sciences provides the necessary tools and resources to apply and execute their innovative projects, such as the ScienceIN<sup>2</sup>Business program. The success of these initiatives is also a result of the strong interdisciplinary cooperation between ULisboa's schools in the areas of entrepreneurship, innovation and technology management.

+ 30  
companies  
incubated  
in Tec Labs



≈ 50  
projects  
under contract  
initiated  
every year

It depends on the choices

Entscheidungen, die wir machen

hemos! Les choix que nous

façons de la

choices we

machen! A nossa

que nous faisons défini

hemos! Our life dep



WE make! Unser Leben hängt

! A nossa vida depende

faisons définissent not

que hacemos! Que

das escolhas que faz

! Nuestra vida dependen

choices we make! Un





# education

+ 80  
courses

+ 1000  
graduates  
every year

Education in the Faculty of Sciences keeps pace with scientific, technological and business evolution.

The undergraduate courses guarantee a solid academic base and a multidisciplinary training that empowers students to become highly skilled professionals. The high level of laboratory work exposure, early in the course, is one of the hallmarks of the Faculty of Sciences. In addition to formal education, students have the possibility to develop an additional set of transferable skills, such as communication, leadership and initiative, aimed at facilitating their entry into the professional world.

The master and doctoral courses allow students to strategically manage their academic and professional career, either by specialization or diversification of their knowledge. Postgraduate training is mainly based on scientific and technological research activities provided by the R&D units of the Faculty of Sciences. The cooperation agreements established with several entities also allow the MSc and PhD theses to be carried out in a business context and have a direct application in response to the problems raised by society.

# education testimonials



*Camila Ramos*  
Researcher  
Instituto Gulbenkian de Ciência

*I chose the Faculty of Sciences as the starting point of my academic career because of its prestige and the range of choices that were appropriate for my scientific interests. Upon entering the master's program, I was able to contact professors, members of the academic community and colleagues who contributed greatly to my experience, so that the integration of various scientific areas took place in a highly dynamic way, and made any challenge a stimulating learning process.*

*I believe that my course has opened the door to many opportunities in the world of research and business, not only due to the broad range of subjects on offer and their relevance, but mainly due to the shared common interest of all those involved in stimulating critical thought and the desire to learn, all of which were crucial for my personal and professional development.*



*João Fonseca*  
Systems Analyst  
EDP - Energias de Portugal

*When I decided to study engineering, I wanted to choose a course in which I could develop knowledge in the energy sector. Today I can say that choosing the Faculty of Sciences was the right decision.*

*Studying in the Faculty of Sciences requires dedication, especially for those interested in the area of energy which is in constant flux. In addition to the quality of teaching, there are advantages such as being close to professors, the programs at international level, the extracurricular initiatives, the great academic environment and the extraordinary people we meet that make the Faculty of Sciences a unique school that prepares good professionals capable of solving the scientific and technological challenges of society.*



*Joana Estevens*

Actuary

Fidelidade - Companhia de Seguros

*The Faculty of Sciences has fantastic faculty members and a close proximity between students and professors, which allowed me to acquire considerable know-how in my area. In addition, I have successfully entered the job market, such that I can say that the Faculty of Sciences is recognised by the companies of our country as being a prestigious faculty that equips its students with a critical, analytical and methodical spirit.*



*Marco Ferraz*

Development Geologist

Galp Exploração e Produção

*My academic career at the Faculty of Sciences allowed me to acquire cognitive, scientific and personal skills that I use daily in my professional career. I became part of a respected, cooperative scientific community able to face new challenges that inspire the acquisition of new knowledge, opening new frontiers in a changing world.*

*I have no hesitation in recommending the Faculty of Sciences to any young person who dreams of being a scientist or any professional who wishes to consolidate their knowledge.*

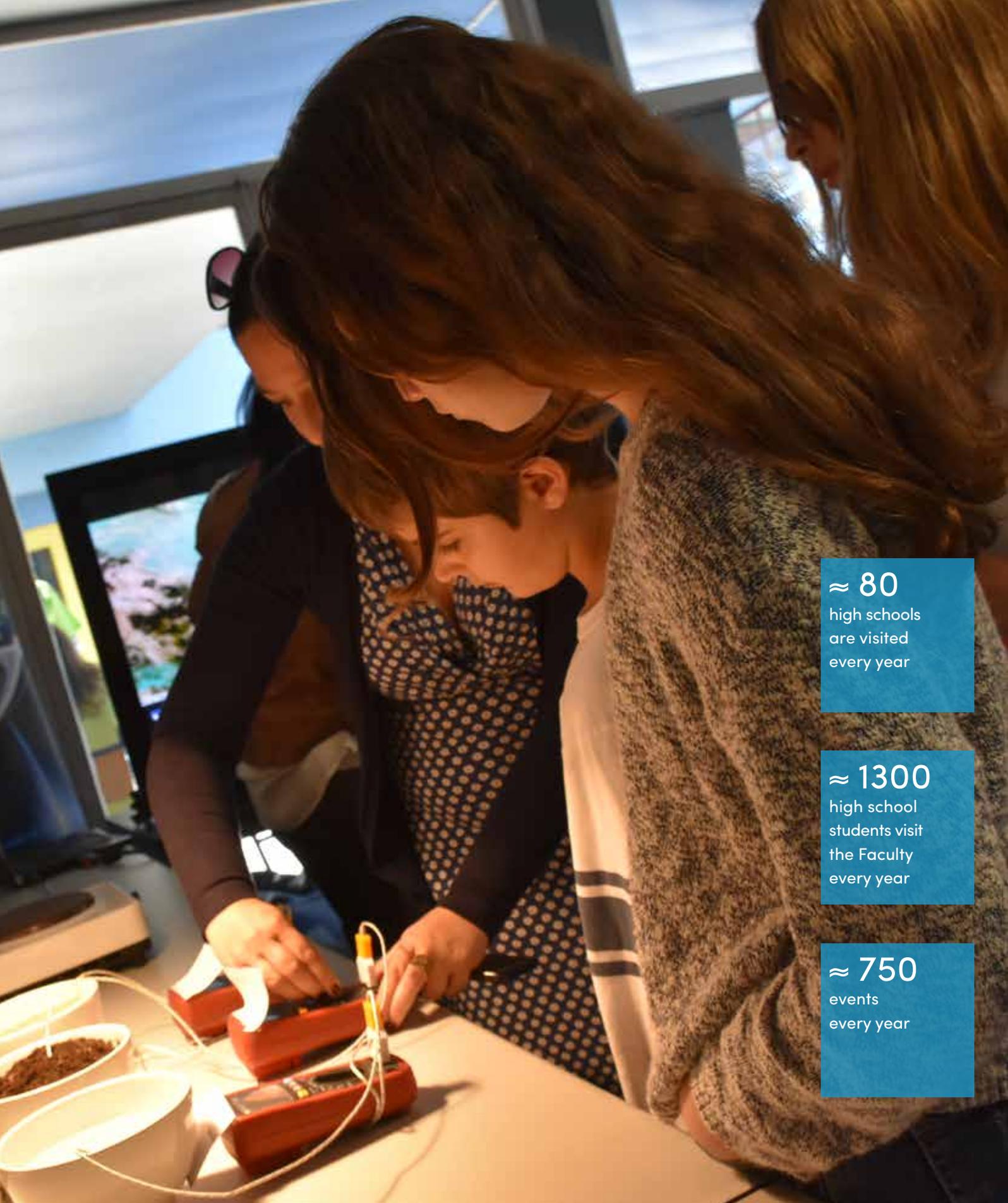


*Pedro Raposo*

Curator

Adler Planetarium, Chicago

*I enrolled at Faculty of Sciences for a master's program that provided me with an excellent background in history of science. The knowledge and skills I acquired during the program put me in a good stead to pursue a doctoral degree at the University of Oxford, UK. They remain essential in my current position as a curator at the Adler Planetarium in Chicago, USA, where I oversee a world-class collection of scientific instruments and rare books.*



≈ 80  
high schools  
are visited  
every year

≈ 1300  
high school  
students visit  
the Faculty  
every year

≈ 750  
events  
every year



# society

The Faculty of Sciences strives to keep up with global society, maintaining several programs that promote the existence of a coherent scientific and technological culture, regardless of age, social status or professional activity. The initiatives of professors and researchers run side by side with institutional initiatives that seek, above all, to capture the focus of the pre-university academic community to the major challenges of the areas of science as well as to inform them about available courses and job prospects.

In addition to the numerous activities that take place on campus, the Faculty of Sciences runs the Science Centre of Lousal (Ciência Viva Network), an old mine which has been transformed into an authentic Mine of Science. This modern centre of scientific and technological education, fosters interaction with the public that can explore science and extract the richest of minerals: knowledge!

The Faculty of Sciences also has strong links to places full of history that preserve important scientific collections: the National Museum of Natural History and Science, which includes the Lisbon Botanical Garden, and the Lisbon Astronomical Observatory. Besides the exhibitions, visitors find a wide range of activities aimed at stimulating curiosity and understanding the science and technology involved.

# enjoy the campus

Most of the activities at the Faculty of Sciences take place at Campo Grande, in the Cidade Universitária campus, a dynamic area of the city of Lisbon, comprised of several commercial and leisure spaces. Located off campus are: the Institute of Astrophysics and Space Sciences, occupying a building in Tapada da Ajuda, the Guia Marine Laboratory in Cascais, by the sea, and the field station Herdade da Ribeira Abaixo near Grândola.

A set of modern facilities and services allow for a true university experience!



## study and research

The library network enables access to numerous bibliographic and electronic resources, including specialised magazines and newspapers.

Several study spaces, freely accessible and equipped with computers, are excellent to study and work. In the Campo Grande garden, near the campus, the Academic Centre Caleidoscópio also has a study room which is open 24 hours a day, 7 days a week.

The teaching laboratories and the laboratories exclusively dedicated to research are equipped with the latest high quality scientific and technological material. The entire campus is covered by the eduroam wireless network.



## integration and culture

The Students' Association and the Employees' Association play an important role in integrating newcomers. Together with Vicentuna (the academic troupe), FC-Acto (the theatre group) and other associations, they organise various social and cultural initiatives that contribute to a stimulating academic life.

On campus, the Aula Magna, a cultural space of reference in Lisbon, hosts important events, mainly shows and concerts. The Faculty of Sciences also has two galleries for exhibitions.



## health, sports and wellness

The academic community has special access conditions to the ULisboa Medical Centre. In addition to primary health care, through consultations of various medical specialties, a set of activities are available that promote physical and psychological well-being. The Faculty of Sciences is also endowed with procedures, material resources and teams qualified to perform first aid and psycho-pedagogical monitoring.

On campus, the University Stadium, a common space dedicated to sports and leisure, offers various forms of physical activities as part of an active and healthy lifestyle.

## food

A diverse range of dining and cafeteria offerings, including canteens and snack bars, serve meals at reduced prices. There are also several restaurants and a convenience store where food and drinks can be bought.



# environment and sustainability

The efficient use of energy resources and the promotion of good environmental practices are a concern of the Faculty of Sciences, which runs initiatives such as making use of recyclable waste or the implementation of internal mechanisms for the management of hazardous waste to address this issue.

The Faculty of Sciences encourages the use of environmentally friendly means of transport by providing parking space for bicycles.



**1788**

solar panels  
installed on  
the roof of  
the buildings

# enjoy the city

Lisbon is the capital and the largest city of Portugal. Boasting over 20 centuries of history, its traditional neighbourhoods with steep, narrow streets, with their characteristic cobblestone pavements, unique in Europe, and the tile panels on buildings, are all part of Lisbon's incredibly acquired heritage over time. In the historical centre of the city you can still enjoy the richness of the music declared intangible cultural heritage of humanity by UNESCO, the "fado".

28

the ideal tram  
to know Lisbon

+ 60

historical  
monuments  
to visit

≈ 20

minutes  
to the beaches

Surrounded by the Tagus River, the riverside area features large gardens and imposing monuments, such as the Jerónimos Monastery, the Monument to the Discoveries or the Belém Tower. The main factory of the traditional and delicious “pastel de Belém” is located in this neighbourhood.

In the most contemporary part of the city there is Parque das Nações, a lively, dynamic and multifunctional area, characterised by the modern architecture of the buildings and by the diverse infrastructures and green spaces for leisure and recreation.

Further afield in the suburbs, you can enjoy the long sandy shores, either to relax or practice sports, as well as the stunning protected landscapes or the picturesque rural landscapes. There are also to discover various monuments classified as world heritage sites by UNESCO.



[www.ciencias.ulisboa.pt](http://www.ciencias.ulisboa.pt)

edition **Faculdade de Ciências da Universidade de Lisboa**

editorial coordination **Gabinete de Organização e Gestão de Informação**

design **Área de Comunicação e Imagem**

photographs **Faculdade de Ciências da Universidade de Lisboa**

printing **Jorge Fernandes, Lda.**

circulation **4000**

The Faculty of Sciences thanks all who have contributed to the making of this booklet.

**research**

investigación investigação

recherche forschung

**innovation**

innovación inovação

innovation innovation

**education**

enseñanza ensino

formation studium

**society**

sociedad sociedade

société gesellschaft

