



Universidad  
Europea



Postgraduates

# Private Master's Degree in Big Data Analytics

Go Beyond

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## We support those who want to go far

**Encouraging** that critical spirit that teaches you to **think** and not just to study.

The spirit that drives you to never stop, to keep doing, growing and **experimenting**.

**This is the essence of our university.** Applying your talent is the best way of evolving, learning and training yourself.

**Curiosity** is that spark that drives you, bringing out the best in you over and over again. Because **being demanding** means having the **ambition** to find what you're passionate about, and when you know what it is, to want to **discover new things**.

# Campus



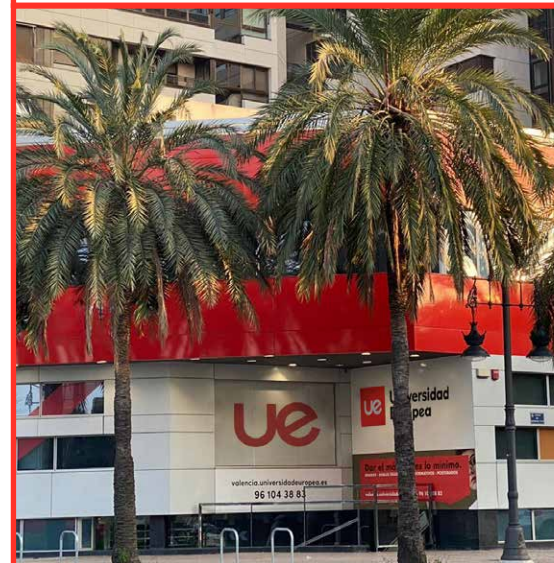
## Madrid. VILLAVICIOSA CUTTING-EDGE FACILITIES AND RESSOURCES IN A UNIQUE ENVIRONMENT

Enjoy a unique experience at our biggest campus. A International entourage with amazing facilities equipped with cutting edge technologies and ressources.



## Madrid. ALCOBENDAS BUSINESS AND UNIVERSITY IN ONE CAMPUS

A Campus that brings to you the professional reality, allowing the students an easier jump to the professional world thanks to our professional agreements. The meeting point in which new business initiatives and curious minds converge.



## Innovation.

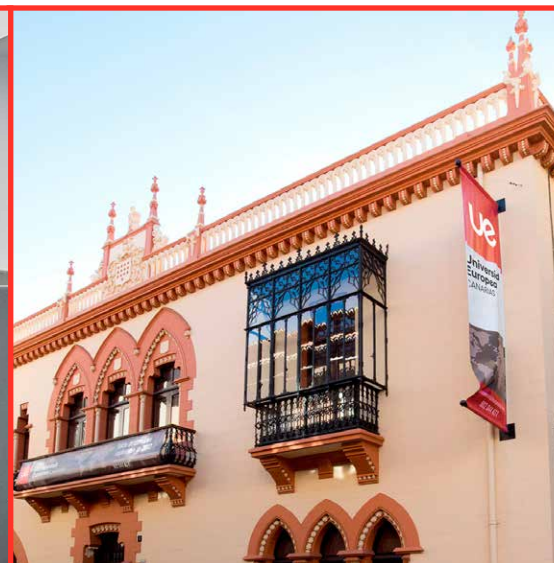
**IN THE HEART OF VALENCIA**  
We grow because we believe in you. We're opening a new building to motivate you to reach your dreams.



## Graduate School.

### UNIVERSIDAD EUROPEA

Do you dream about working in a field that you're truly passionate about? Get your education at the only Postgraduate School specialized in sports. Don't just dream, get ready.



## Orotava, WHERE YOU'LL BECOME.

The latest technology makes the historical Salazar House the best place to achieve your dreams.



## Online.

### UNIVERSIDAD EUROPEA ONLINE.

100% online taught programmes: the flexibility you need. Train yourself at your own pace in a leading University in Innovation and Academic Quality.



# Boost your career



## We create professionals

Faithful to its innovative vocation, and with the aim of enhancing your skills and guaranteeing your employability, the school promotes an academic model connected to the professional world, eminently practical and of high academic quality.

Develop what you have learned in the classroom just as you will do in your day to-day.

**33%**

### International students.

Which enriches the exchange of experiences and the possibilities of do global networking.

**14.000**

### Internship agreements.

Thanks to the agreements with the main companies of each sector you will be able to put your knowledge into practice and live a unique work experience.

**69%**

### Faculty.

The teaching staff is composed of professionals who combine their teaching activity with professional practice.



Universidad Europea  
Certificates:



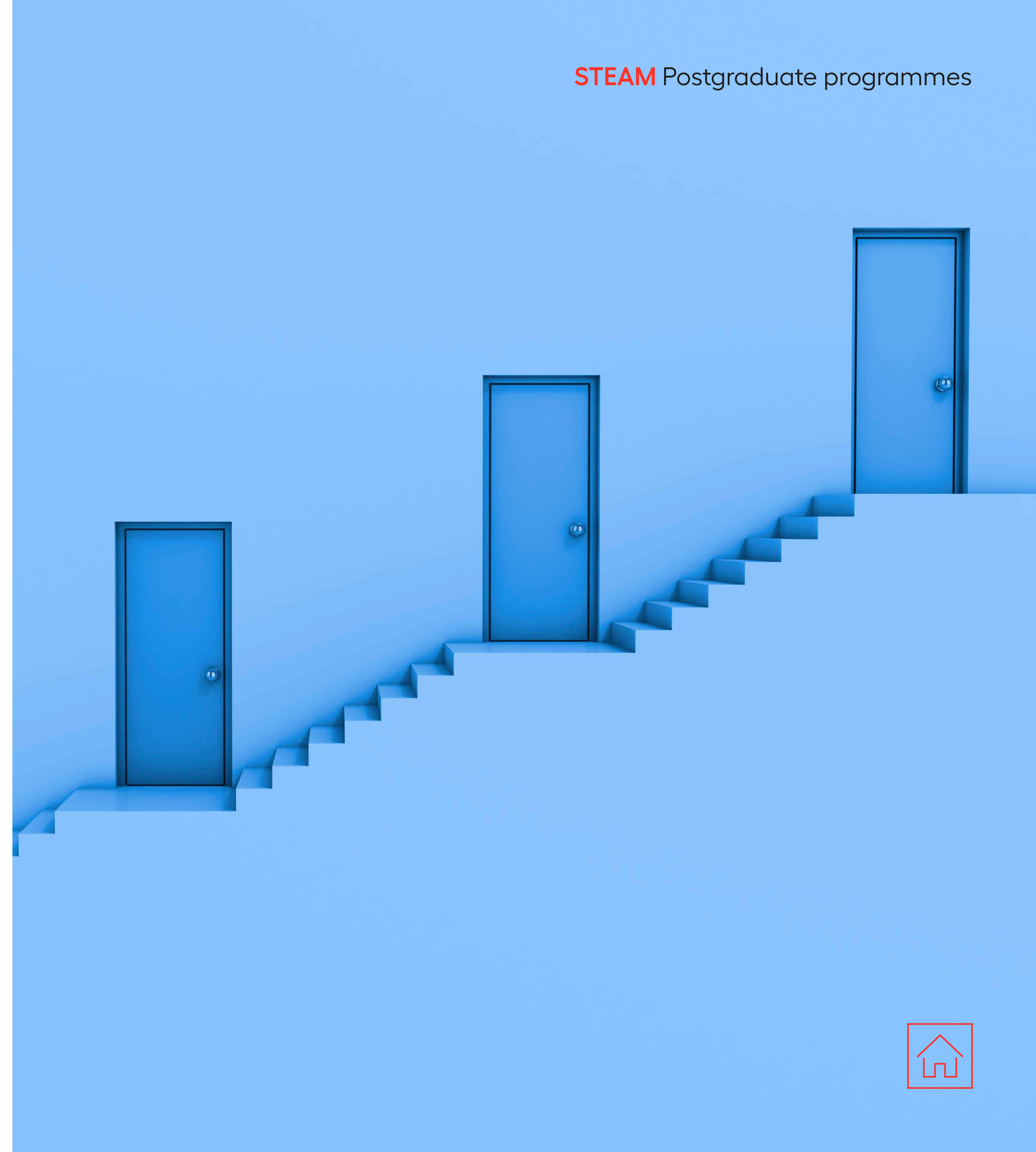
# Master's and Postgraduate Degrees. Universidad Europea.

## Go Beyond.

Today, employment opportunities have become increasingly demanding, and students must have an education that allows them to specialise and stand out in the job market.

Universidad Europea has over 300 partners, more than 16,000 students, and an academic offer including over 80 graduate degrees that cover practically every area of knowledge, all of them designed by sector professionals so that they are aligned with the needs of the job market.

Universidad Europea's goal is to add to our students' ongoing personal and professional growth through a highly practical methodology with a strong emphasis on technology so that they will be able to face the digitalisation of all professions.



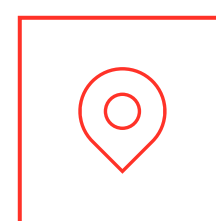
# Private Master's Degree in Big Data Analytics

**This Master's degree qualifies you to be one of today's most sought-after professionals: data architect, data engineer or data scientist. You will train with data professionals who are leaders in the banking, health, telecommunications and consulting sectors.**

The Master's Degree in Big Data Analytics is designed for engineers, statisticians and mathematicians, or data analysts, with a vocation in the field of ICT, who seek to obtain a solid knowledge in storage techniques and distributed information processing, as well as big data analytics and visualisation

You will learn to apply cutting-edge technologies in Data Science and Machine Learning, becoming an expert in managing large volumes of data and infrastructures, machine learning and the analysis of business management processes.

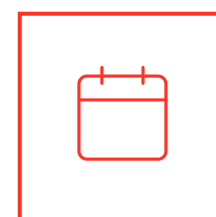
You will have access to the AWS Academy to prepare for the AWS Certified Cloud Practitioner during the module on cloud architectures and the AWS Certified Machine Learning Specialty during the module on data processing and machine learning



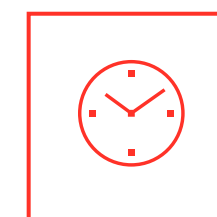
**LOCATION**  
Alcobendas,  
Madrid



**MODALITY**  
Campus-based



**START**  
October



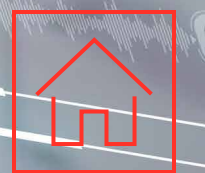
**DURATION**  
10 months



**LANGUAGE**  
English



**ECTS credits**  
60



# What makes us different?

## Private Master's Degree in Big Data Analytics

### Innovative Curriculum

It includes the entire data lifecycle, from the design and implementation of the architectures that will support distributed data storage and processing.

### Compatible with professional activity

Weekend schedule that allows you to combine your work activity with class attendance.

### Prestigious professors

Learn with the help of relevant experts from different sectors and companies such as BBVA, NAPPTIVE, Microsoft, Enagás, Instituto de Ingeniería del Conocimiento, who will share with you their experience and professional vision of data preprocessing, modelling and visualisation

### Experiential learning

You will learn through real cases from first-level multinationals. Thanks to simulations and role plays, you will be qualified to become a global Big Data professional.

You will access to state-of-the-art facilities, consisting of two clusters for processing large volumes of data: A main one with more than 25 homogeneous processing nodes and 2TB of ram memory, and a secondary one formed by 4 server machines with high processing and memory capacities (multicore, +64GB per node). Both have Apache Hadoop, HDFS, Apache Spark, and Hive or Impala noSQL database access languages/tools.

### Exclusive content

You will have access to exclusive masterclasses given by professionals from top companies in Spain, such as Santander and Telefónica.





# What makes us different?

## Private Master's Degree in Big Data Analytics

### Aimed at

This master's degree is specially designed for scientists, technologists, engineers, statisticians, physicists, mathematicians, architects, who wish to reorient their professional career to this field with the challenge of creating value from the integration and analysis of data from different business functions or external media.

- Students coming from official degrees in the field of Data Science; Computer Science and related fields; or Telecommunications Engineering and related fields.
- Students coming from official degrees in the field of Mathematics, Statistics, Physics and related fields; or other official degrees in the field of Engineering, Architecture and related fields, who have competences (MECES level 2) in the field of basic statistics and who have completed or validated the additional training authorised for this purpose, or who have proven professional experience of more than 1 year in the field of Data Science, as database managers, data analysts, or managers of projects where data analysis is developed, and who have completed or validated the additional training authorised for this purpose.
- Students coming from other degrees, who have proven professional experience of more than 2 years in the field of Data Science as database managers, data analysts, or project managers where data analysis is developed, and have completed or validated the additional training authorised for this purpose.

### Internships<sup>1</sup>

You will carry out your professional internship at companies in the sector. These internships are part of the academic content of the programme and are evaluated as part of the training. Internships are a unique opportunity to transfer the contents and skills developed in the master's degree to daily work in a company. If you choose the professional pathway, you will be able to do internships at prestigious companies, such as Accenture, Deloitte, Everis, Indra Sistemas, Luís Simões, Telefónica or VimcomTech.

(1) The internship assignment follows a selection process, applying to the scholarship offers received, using an appropriate CV, conducting interviews, etc. You can read more in the "External academic internship regulations".

### Student Admissions

Description of the additional training required, if any, for admission to the Master's programme

For students coming from official degrees in the field of Data Science; Computer Science and related fields; or Telecommunication Engineering and related fields:

- There is no additional training.

For students coming from official degrees in the field of Mathematics, Statistics, Physics and related fields; or other official degrees in the field of Engineering, Architecture and related fields:

- Design and use of analytical databases (3 ECTS credits)
- Programming for data science (3 ECTS credits)

For students coming from other degrees:

- Design and use of analytical databases (3 ECTS credits)
- Programming for data science (3 ECTS credits)
- Statistics (3 ECTS credits)



# Curriculum

## Private Master's Degree in Big Data Analytics

<p><b>Módulo I</b></p> <p>Cloud Computing Architectures</p> <p>3 ECTS credits</p>	<p><b>Módulo VI</b></p> <p>Business Analytics</p> <p>3 ECTS credits</p>	<p><b>Módulo XI</b></p> <p>Research Methodology and Design (elective)</p> <p>3 ECTS credits</p>
<p><b>Módulo II</b></p> <p>Advanced Applied Statistics</p> <p>3 ECTS credits</p>	<p><b>Módulo VII</b></p> <p>Data Processing</p> <p>6 ECTS credits</p>	<p><b>Módulo XII</b></p> <p>Information Processing (elective)</p> <p>3 ECTS credits</p>
<p><b>Módulo III</b></p> <p>Distributed Systems Computing</p> <p>6 ECTS credits</p>	<p><b>Módulo VIII</b></p> <p>Automatic Learning</p> <p>6 ECTS credits</p>	<p><b>Módulo XIII</b></p> <p>Resources Associated with Research Activity (elective)</p> <p>3 ECTS credits</p>
<p><b>Módulo IV</b></p> <p>New Generation Databases</p> <p>6 ECTS credits</p>	<p><b>Módulo IX</b></p> <p>Automatic Learning</p> <p>6 ECTS credits</p>	<p><b>Módulo XIV</b></p> <p>Practicum (elective)</p> <p>3 ECTS credits</p>
<p><b>Módulo V</b></p> <p>Data Governance and Data Life Cycle</p> <p>3 ECTS credits</p>	<p><b>Módulo X</b></p> <p>Final Master's Project</p> <p>6 ECTS credits</p>	<p><b>Módulo XV</b></p> <p>Internship I (elective)</p> <p>9 ECTS credits</p>
		<p><b>Module XVI</b></p> <p>Internship II (elective)</p> <p>3 ECTS credits</p>



# Tools

Private Master's Degree in Big Data Analytics



# Partner companies

## Private Master's Degree in Big Data Analytics

Students of the Master's in Big Data Analytics will benefit from the collaboration agreements between Universidad Europea and prestigious companies with which students will be able to develop their final Master's project on real projects proposed by the same companies, and receive help and advice from specialists in the sector.

### Cajamar Data Lab

Master's students present their work in the largest university data analysis competition in Spain.

### Vicomtech

Applied research centre specialised in Advanced Interaction, Computer Vision, Data Analytics, Computer Graphics and Language Technologies.

### Telefónica

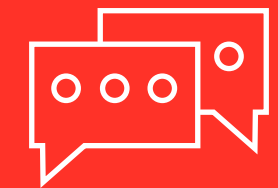
Universidad Europea has an agreement whereby students will be able to work with Telefónica data and participate in the Open Future challenges with their final master's projects.

### Luís Simões

International logistics operator where students can do their internships or develop their Final Master's Project.

### Everis

Multinational consulting firm working on projects in various sectors, including the development of Big Data solutions.



# Scholarships and Assistance

Universidad Europea is committed to ensuring that the cost of its courses is not an obstacle for accessing quality education.

Consult with an advisor to find out all the options available to you:



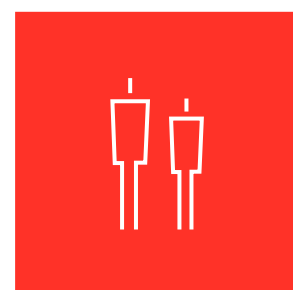
Payment flexibility



Grants for continuing your studies



Grants for simultaneous studies



Grants for having a family member at the UEM



Universidad Europea scholarships



Official scholarships

## Knowledge without barriers

Your education is one of the best investments you can make.

Don't let anything stop you!

Go Beyond



# Admissions process

The admissions process for **Universidad Europea** programs runs throughout the whole year, although enrollment in all graduate programs depends on the availability of places.

For personalized guidance, you can go to either of our university campuses (**Alcobendas or Villaviciosa de Odón**), or contact us via phone: **(+34) 91 740 72 72** or e-mail: [postgrado@universidadeuropea.es](mailto:postgrado@universidadeuropea.es) to receive advice from the Graduate Degree Admissions staff.

Once candidates have received guidance and have provided the necessary documentation, the Graduate Degree Admissions staff will send them a date for a **personal interview** with the Workshop Program Director or a member of the Admissions Committee.

The admissions process does not involve any costs or commitment for candidates, until their place is formally reserved.





**Universidad  
Europea**

**How far can  
you go?**

However far you want

**Go Beyond**



## Universidad Europea de Madrid

### **Campus de Villaviciosa de Odón**

C/ Tajo, s/n, 28670.

Villaviciosa de Odón, Madrid

### **Campus de Alcobendas**

Av. Fernando Alonso, 8, 28108.

Alcobendas, Madrid

**Teléfono: (+34) 91 740 72 72**

**Atención al estudiante: (+34) 91 414 66 11**

## Universidad Europea de Valencia

Paseo de la Alameda, 7, 46010.

Valencia

**Teléfono: (+34) 96 104 38 83**

**Atención al estudiante: (+34) 96 104 38 80**

## Universidad Europea de Canarias

### **Campus de La Orotava**

C/ Inocencio Garcia, 1, 38300.

La Orotava, Tenerife

**Teléfono: (+34) 92 209 70 91**

**Atención al estudiante: (+34) 92 298 50 06**

### **Instalaciones Santa Cruz de Tenerife**

Calle Valentín Sanz, 22, 38002.

Santa Cruz de Tenerife

**Teléfono: (+34) 92 244 26 31**

**Atención al estudiante: (+34) 92 244 26 34**

**Teléfono general inglés y español:**

**(+34) 91 740 72 72**



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