

Alstom and Carlos III University of Madrid launch a new Master's Degree in Railway Engineering

- The UC3M master's degree aims to broaden the academic offer available in the field of railway engineering, targeting industrial, telecommunications and computer engineers
- Alstom in Spain will recruit over 250 new employees this year, most of them engineers specialised in the railway sector

28 March 2022 – Alstom, global leader in smart and green mobility, is launching a new master's degree in Railway Engineering with The Carlos III University of Madrid (uc3m), for the next academic year, which will be available to engineers in the fields of industrial, telecommunications and computer science.

This master's degree aims to develop the academic offer available in the field of railway engineering, a growing sector with a high demand for qualified and skilled professionals. *"This industry will be one of the most dynamic in the next decade, offering new professional opportunities in the STEM field. Alstom in Spain currently has more than 250 positions to be covered this year, most of them for specialised technicians and engineers. The Alstom Group expects to recruit more than 7,500 new professionals worldwide in the coming year. The sector needs talent and it is our responsibility to promote and support this industry,"* says Stephany Burik, Alstom in Spain Talent Management Director.

The academic programme covers railway systems engineering from a multidisciplinary and comprehensive approach, which includes the design and development of **digital safety and control systems** (railway signalling), **electric traction**, **rolling stock** design, as well as services and **maintenance** of the systems. After completing the master's degree, students will be able to plan, evaluate, design and develop systems in the railway sector, as well as to include safety criteria in all types of design.

Methodology combines theory and practice, providing students with virtual and experimental tools, taking also into account the importance of applying the technical standards and legislation that regulate the railway sector. The course also includes practical training and visits to different rolling stock, components and systems manufacturing facilities, as well as railway operators' sites.

Professors from the university, active professionals from Alstom in Spain and other railway experts will form the teaching staff for this master's degree. Admission process has already begun and will remain open until all 30 places available are filled.

More information at: <https://www.uc3m.es/master/ingenieria-sistemas-ferroviarios>

About Alstom

Leading the transition to a decarbonised future, Alstom develops and markets sustainable mobility solutions that will lay the foundations for the future of transport. Alstom's portfolio of products and solutions ranges from high-speed trains, metros, monorails and trams to integrated systems, customised services, infrastructure, signalling and digital mobility solutions. Alstom has 150,000 vehicles in operation worldwide. Following the integration of Bombardier Transportation on 29 January 2021, the consolidated revenues of the new Group will reach €14 billion (considering the 12-month period ending 31 March 2021). Alstom is currently present in 70 countries and employs more than 70,000 people. www.alstom.com

The **Alstom Group Spain and Portugal** has a long industrial and technological history in the country, with about 3,000 employees in Spain, 5 industrial centres, 4 technology centres and a presence in more than twenty maintenance workshops. Among others, Alstom has an industrial plant in Barcelona dedicated to the manufacture of all types of rolling stock, a propulsion systems factory in Vizcaya and, in Madrid, different technological innovation centres for the development of programmes and projects in the fields of railway safety, signalling, maintenance and digital mobility.

Contact Press Alstom Spain and Portugal

Irma Aguado Carranza

Tel.: +34 91 334 56 81 - 686 677 104

irma.aguado@alstomgroup.com

<https://www.alstom.com/>

<https://www.alstom.com/es/alstom-en-espana>

https://twitter.com/Alstom_es

<https://www.linkedin.com/company/alstom>