## SURVEY

National scope.

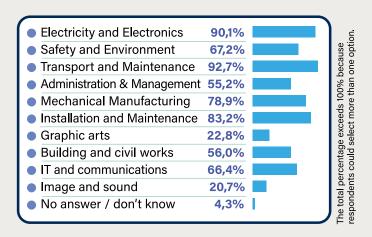
December 2024 – April 2025

51.5% know a woman who works in the ailway sector.71.6% of people believe they could work in the railway sector.

What UNIVERSITY studies do you think people working in the railway sector must have?



What VOCATIONAL TRAINING do youthink people working in the railway sector must have?



# THE PROJECT

## NIÑAS AL TREN DE LA CIENCIA Y LA TECNOLOGÍA has worked to:

- •Promote scientific vocations and an innovative spirit among students (especially girls) by encouraging them to pursue disciplines related to research and innovation in the railway sector.
- •Advance gender equality and the empowerment of girls and women through education in fields related to railways.
- •Bring science, technology, and researchand innovation activities in the railwaysector closer to Spanish society.
- •Raise awareness of the scientific technological and innovation developments carried out by Spanish institutions and research centers.
- •Promote recognition of the railway as an example of the values that scientifictechnological and innovation advancements contribute to social, economic, environmental and safety-related well-being.

The project is funded by FECYT within the framework of the 2023 Call for Grants to Promote Scientific, Technological, and Innovation Culture (FCT-23-19207).

www.ffe.es/niñasaltrendelaccytec/









DE LA CIENCIA Y LA TECNOLOGÍA



#### OBJETIVES OF NIÑAS AL TREN DE LA CIENCIA Y LA TECNOLOGÍA

 Increase scientific and technological vocations among girls.

.....<del>1</del>



 Raise awareness among boys and girls about the importance of the role of women in the world of railway science and technology  Inform about the challenges women have faced in this field of work.

and technological professions in the railway sector have





#### AND WHY CAN'T YOU MISS THIS TRAIN?

#### THE RAILWAY

IS SUSTAINABLE



0.4%

**IS SAFE** 

Deaths per billion passenger/km (2011-2015)

2.7 CAR OCCUPANTS

0.23 BUS PASSENGERS

1 RAILWAY PASSENGERS

0.06 AIRLINE PASSENGERS

#### CONNECTS PEOPLE

**1100** 

#### **DATA ON RAILWAYS IN SPAIN**



TRAVELLERS

654,939,000 people used rail transport in Spain in 2023.

FREIGHTS

Almost 22 millions of tonnes were transported by rail in Spain in 2023.



HIGH SPEED

With 4,000km, Spain has the most extensive network in Europe and the second largest in the world, only behind China.

Spain leads the implementation of the ERTMS signalling and communications system in Europe with more than 2,700 km.



#### METRO AND TRAM 9 cities with metro network.

24 cities with trams.

#### **SPANISH RAILWAY INDUSTRY**

# **WOMEN ON THE RAILWAY**

#### AND WHY CAN'T YOU MISS THIS TRAIN?



#### **ENGINEERS**

Percentage in railway sector entities

21.7%

18.2%

23,3%

REPRESENTATION

for 22.8% of the workforce

#### **MANAGEMENT TEAMS**

Women and men and women's level of responsibility



#### **EMPLOYMENT PROFILE**



20.0%

10.5%

28,8%



STEM • earn 26% more than

#### TRAINING

Overall, women represent 17.5% with an engineering profile working in railway companies.





**LEADERSHIP** 22.7% women leading management teams

#### **GUIDING PRINCIPLES OF STEM:**

Promote inquiry-based learning critical thinking and scientific

Encourage active teaching and autonomous thinking that allows for exploratory, reflective, creative and transformative learning.

Empower generations to use science, technology, engineering and mathematics (STEM) skills and reflective reasoning to solve complex problems and innovate.

 To face the challenges of society and contribute to its progress in different areas.



#### AND WHY CAN'T YOU MISS THIS TRAIN?

#### **WOMEN IN THE STEM SECTOR**

**LABOR PARTICIPATION** 

STEM occupations, by gender 72.7%

STEM occupations, out of total

#### STEM VET & HNC

374,325

13.2%

12.3%

#### **UNIVERSITY STUDENTS STEM**

6,426



### THE GENDER GAP IN STEM OCCUPATIONS

#### STEM WOMEN

STEM YOUTH

The percentage of women in a STEM occupation out of the total number of women employed in Spain in 2022 is 5.6%.



#### Women under 30 years of age

who are engaged in STEM occupations reach 9%, to drop to 7% among those aged 30 to 44 years.



STEM OCCUPATIONS

Only 1 in 4 STEM jobs is held by a woman, a proportion that has remained constant since 2011.



#### STEM SECTORS

By sector, STEM occupations have a lower female presence: construction (18%) and information and communications (23%).



#### STEM INCORPORATION

Female STEM graduates are. 5 years later, about 2.7% less likely to be employed in the sector than their male counterparts.



#### THE LABOR MARKET FOR STEM OCCUPATIONS IN SPAIN

High demand

highly demanded in technological profile fields due to the digitalization

of our society.



Attractive salaries

STEM professions offer nigher salaries due to specializatio and the scarce number in these fields

International opportunities

> Many of the STEM professions are also in demand in abroad. his opens doors to labor mobility for Spanish professionals

