



Organised by **FISITA** 

Student and Young Engineer Opportunities Programme

1 – 3 June 2026

Rheingoldhalle, Mainz Congress Centre, Germany





ESOP Programme

The EuroBrake Student and Young Engineers Opportunities Programme initiative is returning in 2026. It is FREE to enter. The top 20 students and young engineers will be offered the opportunity to receive a complimentary pass to EuroBrake 2026 on 1-3 June in Mainz, Germany*.

The aim of the programme is to provide students and young engineers with a unique chance to learn about the international technology of mobility and braking industry, as well as participate in activities with peers and experts.

* Please note, successful candidates' accommodation costs will be covered, however they will be required to cover the cost of their travel to EuroBrake.



In addition to attending the EuroBrake conference and social programme, the Student and Young Engineers Opportunities Programme will include activities such as:

- “Meet the experts” session – speak with industry leaders to explore the most pressing themes and questions of the braking technology sector.
- Poster session – get the opportunity to present to and speak with the experts and delegates at the EuroBrake conference, make meaningful connections, and expand the awareness of your work.



Who can apply

Entry criteria

Students who have either recently completed or currently studying on any of the below engineering-based university courses:

- Bachelors
- Masters
- PhD

Young engineers who are in their first work placement following university graduation.

Entry format

- An initial abstract on any of the subjects detailed below (up to 500 words)
- Must be original content
- Written in English

Applicants are required to complete the application form and provide a copy of their CV and proof of student or graduate status.

Accepted applicants will be invited to submit a poster.

Key Deadlines

30 January 2026	Deadline to submit abstracts
6 March 2026	Acceptance notifications expected
31 March 2026	Deadline to send us your poster
17 April 2026	Feedback to be expected
10 May 2026	Deadline to send final posters

[Apply here](#)

Deadline for submissions: 30 January 2026

Why enter?

- It is free to enter.
- Present your innovative ideas to over 1,000 global braking experts at the EuroBrake in Mainz, Germany on 1-3 June 2026.
- Build a professional network by connecting with experts in the braking community.
- Engage with peers and industry professionals, ranging from fellow students to CTOs.
- Contribute to shaping the future of the braking industry.
- Participate in the dedicated EuroBrake Student Programme, featuring a poster session, opportunities to meet with industry experts, and much more...



The finalists will receive

- A free ticket to EuroBrake 2026 in Mainz, including accommodation worth €1,500+ (note that travel will not be included).
- An automatic entry for the EuroBrake poster competition.
- An inclusion within the EuroBrake event proceedings where their poster will be published.
- Recognition for the winner of the poster competition via FISITA's communication channels.
- Free access to the FISITA Digital Library.

2026 Poster Competition topics



Commercial Vehicles

- Brake particle emissions of LCV and HDV
- Alternative combustion engines e.g. hydrogen drive
- Retarder vs. Recuperation (differences in performance demand)
- Brake disc coatings

Railway braking

- Technological measures to reduce non-exhaust emissions from rail e.g. coated rotors
- Rail brake tribology: NVH and emissions
- Innovations in rail braking systems e.g. "brake-bywire" (EMB)

Specialised brakes

- Motorcycles, electric bikes etc
- Motor sport and high-performance vehicle braking
- Industrial brakes e.g. wind turbines

Braking systems and technologies – new and current developments

- Environmentally friendly braking systems
- Digital twins – link between modelling, simulation and testing
- Autonomous vehicles and brake system health monitoring
- Braking systems in the integrated chassis control scenario
- Safety and redundancy for brake-by-wire systems and automated driving
- Lessons learned from electro mobility: need for new requirements?
- Regenerative braking
- Braking systems and technologies for automated vehicles
- EMB and BBW – new development and regulatory aspects
- The software-defined vehicle and its impacts and potentials for braking systems
- Ecosystem for seamless software and system integration
- Systems engineering
- Functional safety
- Vehicle motion control strategies
- New braking technologies

2026 Poster Competition topics



Components and materials

- Fundamentals of brake mechanisms
- Materials and design
- Friction material testing & requirements for EVs / BEVs
- Brake rotors
- Lightweight design for brake disc system
- Corrosion resistance
- Durability of environmentally friendly brakes
- Raw material investigations and lab studies of raw data
- AI / ML-based friction material formulation
- Future rotor coating materials development including raw materials for coatings
- Aftermarket brake solutions

Environmentally friendly approaches

- Sustainability (logistics, manufacturing processes, manufacturing concepts, testing efforts, material selection, environmental impact, recycling)
- Emissions and abrasion from brake and tyre interaction
- Green brakes / green raw materials for friction materials, including LCA
- Health effects of brake emissions
- Euro7 and UN GTR24 compliance and achieving certification
- Tyre emissions
- Aerosol characterization and impacts on environment and health

Testing and standardisation

- Brake wear and emissions - testing
- NVH – testing
- Testing and standardisation
- Simulation, testing, innovative development processes
- Small scale rapid testing & correlation to full scale test results
- Real-world corrosion testing
- Global and local regulatory requirements
- Updates on standardisation activities
- Advanced testing tools (AI based, innovative methodologies, autonomous vehicles)

Modelling and simulation

- Brake wear and emissions - simulation
- NVH - simulation
- New simulation techniques and data driven methods
- AI / ML-based approaches, research cases, and uses in innovation
- FEA code, virtual certification and design, modelling quality

Vehicle level consideration for brakes and braking system requirements

- Are BEV's on the way out?
- What's next from vehicle architecture that may profoundly impact braking systems?
- Complete chassis system integration
- How future automated driving is going to impact brake performance

[Apply here](#)

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EuroBrake is organised by FISITA, the global membership organisation for the technology of mobility industry.

FISITA membership supports hundreds of thousands of engineers across four member-category types including Automotive Engineering Societies, Corporate Members, Strategic Partners, and Academia.

Contact us

FISITA (UK) Limited
New Mead Barn
Wickham Hall, Hadham Road
Bishop's Stortford, Herts
CM23 1JG
United Kingdom

Email: eurobrake@fisita.com
Web: www.fisita.com

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