CERN VOCATIONAL TEACHERS PROGRAMME

KNOWLEDGE FOR TOMORROW

INSPIRING TEACHERS. EMPOWERING VOCATIONAL EDUCATION.

A one-week training programme for vocational teachers in engineering domains



TEACHERS TODAY, INNOVATORS TOMORROW

DISCOVER CERN

Explore the world's largest particle physics laboratory

HANDS-ON LEARNING

Workshops and practical sessions in cutting-edge facilities

EXCHANGE & COLLABORATE

Share experiences with teachers from around the world

BRING BACK INSPIRATION

New ideas and resources for your classroom

BE PART OF THE NETWORK

Join a global community of CERN teachers

1 WEEK
Immersive programme

VOCATIONAL TEACHERS
Electricity, Mechanics, Ventilation and more

AT CERN
Meyrin, Switzerland

INTERNATIONAL PROGRAMME
For teachers from all over the world

EMPOWERING VOCATIONAL TEACHERS TO SHAPE THE SKILLS OF TOMORROW

CERN VOCATIONAL TEACHERS PROGRAMME

INVEST IN YOUR TEACHERS. BRING CERN BACK TO YOUR CLASSROOMS.



WHY SHOULD YOUR SCHOOL SEND A TEACHER TO CERN?

A one-week immersive experience for vocational teachers in engineering and technical fields combining real CERN environments, practical workshops, expert exchanges and classroom-focused knowledge transfer.

STRENGTHEN TEACHING

Update technical knowledge through exposure to real engineering systems, methods and technologies used at CERN.

INSPIRE STUDENTS

Return with concrete examples, stories, challenges and demonstrations that make engineering careers more tangible.

CONNECT YOUR SCHOOL

Join an international network of vocational teachers and open new perspectives for collaboration and knowledge exchange.

WHAT COMES BACK TO YOUR SCHOOL?

- New technical content for lessons and workshops
- Fresh ideas for hands-on learning and problem solving
- A stronger connection between vocational education and industry
- International perspectives and professional contacts

ONE WEEK • CERN, MEYRIN, SWITZERLAND • INTERNATIONAL COHORT

WHAT YOUR TEACHER WILL EXPERIENCE

See it. Discuss it. Try it. Bring it back to your students.

CERN ENGINEERING PROGRAM — VOCATIONAL TEACHERS

TIME	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
08:30 - 9:30		Introduction to CERN	Nuclear and Functional Safety for Accelerators and Experiments	Engineering Materials	Forming and welding	Knowledge Transfer to Industry & Society
9:30 - 10:30		Electrical systems	Introduction to Design for Accelerators	Non Destructive Testing	Machining	Examples and Engineering challenges in the Classroom
10:30 - 11:00		Coffe	Coffe	Coffe	Coffe	Coffe
11:00 - 12:00		Ventilation systems	Computational Tools — Design (CAD)	RF Systems & RF Power Couplers	Cryostats and Cryomodules	Opportunities for your technical Eng and technicians
12:00 - 13:00		Control systems	Vacuum Systems for Accelerators	IT systems for Engineering	Other infrastructures	Conclude the program
13:00 - 14:00		Lunch	Lunch	Lunch	Lunch	Lunch
14:00 - 15:00		ATLAS and Test Facility Hall SM18	Hands-on: Design/FEA	Hands-on: Materials & Non Destructive Testing	Hands-on: Fabrication Technologies	Discussion and one to one visits
15:00 - 16:00						
16:00 - 17:00		CERN magnet factory and Main workshop				
17:00 - 18:00	Welcome and objectives		Q&A Session	Q&A Session	Q&A Session	
18:00 - 19:00						
19:00 - 20:00				Dinner		
20:00 - 21:00						

EGEND

Engineering lecture	Site visit	Hands-on engineering	Knowledge transfer / classroom	Q&A	Social / closing	Break / meal

SEND A TEACHER. BRING THE EXPERIENCE BACK.

Support a teacher to spend a week learning from CERN engineers, experiencing hands-on technologies and building ideas that can be shared with colleagues and students.