



Safety & commissioning engineer for the East Area Renovation

Project code	56
Supervisor	Sébastien EVRARD
Department	EN

Title

Safety & commissioning engineer for the East Area Renovation

Description

Accelerate your career by joining the Engineering Department at CERN. Contribute your expertise by coordinating commissioning activities in the world's largest particle accelerator complex and its experimental facilities. CERN, take part!

You will join the Core team in charge of the Renovation Project of the East Area Facility. The East Area of the CERN PS has served the physics community for over 50 years and remains extremely popular and necessary, among others, to complete full calibration over a large energy spectrum of the detectors to be installed in the LHC experiments according to the needs of the upgrade for the High Luminosity LHC. To become familiar with all the beam line components and the facility in general, you will be involved in the Safety file edition and in the establishment of safety procedures. You will then participate actively in the hardware tests, the beamlines commissioning and the facility first run operation. This also involves on site work supervision, coordination and tests.

Functions and Training Value

As a junior safety & commissioning engineer, you will:

- Learn the most recent technologies applied to beam line components (Collimator, beam stoppers, vacuum, control systems, alarms, energy recovery systems, remote handling, new scintillating fibre beam profile monitors, primary area ventilation).
- Integrate complex systems to respect today's norms and best practices for radiation protection, standardize beam line & detector/control room data and control exchanges
- Develop Safety & Quality management skills by achieving verification, validation, test and inspection of products, services, or processes to evaluate quality or performance.

Qualifications/Skills

Master degree in mechanical, electronics, electrical, material or computing engineering or equivalent knowledge of engineering science and technology. This includes applying principles, techniques and procedures on equipment design, construction, commissioning & operation.

Knowledge of engineering and safety requirements in particle accelerators and experimental areas would be an asset.