



# Engineer in the LHCb Technical Coordination Team

Code	EP7550
Programme	FCT
Department	EP
Responsible	31204 - Dr. Rolf Lindner

## Title

Engineer in the LHCb Technical Coordination Team

## Description

The LHCb experiment is one of the largest particle physics detector experiments at the Large Hadron Collider (LHC) at CERN. The LHC complex will be closed for upgrades from 2019 to 2020. During this period, the LHCb experiment will have a major upgrade of its hardware, software and all of the related services and infrastructure.

As an Engineer in the LHCb Technical Coordination Team, you will join a multi-disciplinary team of physicists, engineers and technicians and participate in the engineering work necessary for the LHCb upgrade. Your responsibilities will include:

Performing structural and thermal calculations necessary to design components for future LHCb particle detectors;

Verifying the results of calculations by performing measurements (e.g.: temperature, deflection) on prototypes;

Participating in the production of prototypes using rapid prototyping techniques (e.g.: 3D printing)

Writing up technical documents;

Communicating with LHCb members at CERN and with collaborating institutes worldwide.

By participating in this project, you will gain an overall understanding of the engineering process from the design up to the manufacturing of particle detector parts.

## Skills

CAD and FEA software.

## Disciplines

Experimental Physics, General Engineering, Mechanical Engineering

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