

Trainee's Project Report

Job Code	EN86
Department	EN
Discipline	Materials Science
Supervisor	SGOBBA Stefano

Description

Inspection of and advice on materials to be used in accelerators or physics experiments. Whithin the EN-MME Materials and Metrology section : - participation in material analysis and metallurgical examination for everyday trouble shooting and long term work in view of material selection and manufacturing procedure assessment for present and future accelerators and detectors.

Special Requirements

University degree in material science or metallurgy. Experience in the field of mechanical and physical testing, in particular of non destructive testing should be an advantage.

Training Value

Microstructure, physical and mechanical properties of metallic materials, composites and ceramics. The trainee will become familiar with optical and scanning electron microscopy, optical microscopy including image analysis, energy dispersive X-ray analysis and electron backscatter diffraction (EBSD), X-ray diffractometry, spectrometric analyses, mechanical testing at room and cryogenic temperatures.

