



Sample Project: Cooling and Ventilation projects

Code	EN1104
Programme	TRAIN-PTES
Department	EN
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Title

Cooling and Ventilation projects

Description

The Project Section of the Cooling and Ventilation Group of the Engineering Department of CERN manages projects for the supply, installation and commissioning of cooling and ventilation systems for the whole accelerators at CERN and for LHC Experiments. A large number of installations (accelerator and experiments) are requiring now and will require in the next future important work for refurbishment and upgrade. Future CERN projects will demand new cooling and ventilation system to be released. In this framework, the Project Cooling section proposes a trainee position at CERN. The selected candidate will: - Interface with the others groups and CERN staff (engineers and physicists) to collect performances needs for the HVAC and cooling systems in order to define the preliminary design. - Acquire the necessary knowledge and collaborate to the different phases of the design of HVAC and cooling plant; in particular the main tasks shall include the dimensioning of the components of the installations, the definition of the layout of the stations, the integration of the plant in the general layout of the building. - Contact potential suppliers for quotation requests on specific issues or components. - Participation to the call for tender process, in particular contributing to the redaction of the technical specifications, for the construction of the HVAC and cooling installations and validate the proposals received by bidders.

The candidate will have: - University degree in Mechanical Engineering; - Experience in the field of cooling and/or ventilation, in particular in the field of low temperature refrigeration techniques; - Knowledge of components selection and industrial cooling system design; - Good knowledge of either English or French; - Ability to quickly come up to speed on technical matters; - Ability to work independently and in a team and to be self-starters; - Clear and effective written communications.

Skills

Mechanical Engineering: Fluid systems, Heat Transfer

Disciplines

Mechanical Engineering