Sample Project: HVAC system for the FCC project

Code	EN1246
Programme	TRAIN-PTES
Department	EN
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Title

HVAC system for the FCC project

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 systemsfor the whole accelerators at CERN and for LHC Experiments. In the coming months the Section shall be in charge of the design and construction of the HVAC and cooling plants for the new Future Circular Collider (FCC) at CERN. In this framework, the Project 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 for the FCC. - Acquire the necessary knowledge and collaborate to the different phases of the design of HVAC and cooling plant for the future FCC; 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. - Participation to the drawing up of technical reports where needed.

The candidate will have: - University degree in Mechanical Engineering; - Experience in the field of cooling and/or HVAC installations; - Knowledge of components selection and industrial cooling system; - Good knowledge of either English or French; - 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