



HVAC Project Engineer (SCE-SAM-IN-2025-30-LD)

Geneva, Switzerland

Company Description

At CERN, the European Organization for Nuclear Research, physicists and engineers are probing the fundamental structure of the universe. Using the world's largest and most complex scientific instruments, they study the basic constituents of matter - fundamental particles that are made to collide together at close to the speed of light. The process gives physicists clues about how particles interact, and provides insights into the fundamental laws of nature. Find out more on <http://home.cern>.

Job Description

Introduction

Are you an experienced HVAC Project Engineer with a passion for the design, operation, and construction of HVAC systems for large-scale infrastructures and buildings? If so, join CERN and bring your technical expertise to the world's largest particle physics laboratory. CERN – take part!

You will join the Infrastructure Section (IN) within the Site Asset Management (SAM) Group, part of the [Site and Civil Engineering \(SCE\) Department](#). You will play a key role in shaping and maintaining the vital HVAC and Sanitary systems that support CERN's groundbreaking research.

Functions: As an HVAC Project Engineer, you will:

- Perform feasibility studies and detailed designs of HVAC and Sanitary systems, including sustainability aspects and cost estimates for the proposed solutions.
- Draw up technical specifications and documentation to adjudicate the workload to external contractors.
- Manage the contract tendering, adjudication process, and contract execution.
- Monitor and report on project progress, including schedule, cost, and quality, throughout the work phase until commissioning and formal operational handover.
- Technically coordinate the work of contractors responsible for the installation of equipment and systems.
- Support and/or supervise team members responsible for the operation and maintenance of existing HVAC and sanitary systems on the CERN sites.

Qualifications

Master's degree or equivalent relevant experience in the field of HVAC or Mechanical engineering, preferably with a specialisation in industrial building installations or a related field.

Experience:

- Extensive experience in HVAC engineering, with a strong focus on building projects, and in supervising and implementing HVAC ventilation/hydraulic, sanitary, and related automation processes.
- Extensive experience in coordinating HVAC-EL services on building projects.
- Strong track record in evaluating, proposing, and estimating HVAC installations for both renovation and new construction projects.

- Demonstrated ability to develop detailed execution documentation, ensuring system reliability and safety, with strong knowledge of technical standards applicable to HVAC and sanitary systems in building design and construction.
- Electrical skills to support the maintenance and operation (M&O) of the CERN campus would be a significant asset.

Technical competencies:

- Design and construction of HVAC plants and networks: including heating cooling and sanitary systems, double flow ventilation, specific extraction, smoke extraction.
- Configuration and use of information management systems: building automation, BMS (Building management Systems).
- Metrics and analytics: for HVAC activities, including HVAC calculation for different types of equipment, air handling units, hydraulic systems, sanitary networks.
- Specification and follow-up of technical aspects of a contract
- Maintenance and operation strategies for a large portfolio of buildings, ensuring long-term performance and efficiency.

Behavioural competencies:

- Managing self: taking initiative beyond regular tasks and making things happen.
- Achieving results: driving work / projects along and seeing them through to their conclusion.
- Solving problems: anticipating obstacles; assessing alternative solutions in order to have a fall-back plan Identifying, defining and assessing problems, taking action to address them.
- Working in teams: building and maintaining constructive and effective work relationships Sharing and letting others participate in own work/project; encouraging team development.
- Communicating effectively: listening actively to others and letting others speak Ensuring that information, procedures and decisions are appropriately documented.

Language skills: Spoken and written English or French, with a commitment to learn the other language.

Additional information

Eligibility and closing date:

[Diversity](#) has been an integral part of CERN's mission since its foundation and is an established value of the Organization. Employing a diverse workforce is central to our success.

This vacancy will be filled as soon as possible, and applications should normally reach us **no later than March 30th 2025 at 23:59 CET**.

Employment Conditions

Contract type: Limited duration contract (5 years). Subject to certain conditions, holders of limited-duration contracts may apply for an indefinite position.

Working Hours: 40 hours per week

This position involves:

- Work in Radiation Areas.
- A valid driving licence.
- Work during nights, Sundays and official holidays, when required by the needs of the Organization.
- Stand-by duty, when required by the needs of the Organization.

Job grade: 6-7

Job reference: SCE-SAM-IN-2025-30-LD

Benchmark Job Title: Mechanical Engineer