



PROJECTS

Profile 7 - Buildings & Site Equipment

Department	Domain/Activity area	Location	Duration	Nr of position(-s) available
PROJECTS	Buildings & Site Equipment	Cadarache (France)	12 months	1

Description of tasks

- Contribute to the development of the design and construction of building services systems, including Heating, Ventilation and Air-conditioning (HVAC), electrical, piping, and instrumentation & control.
- Support the proposal of optimal solutions to meet technical requirements and ensure compliance with project specifications.
- Assist in the management of contractors and coordinate project activities to support overall project management.
- Participate in project meetings and contribute to documentation, reporting, and follow-up of technical and construction activities.

Your qualifications

- Bachelor's in Mechanical Engineering, Electrical Engineering, Instrumentation & Control Engineering or another relevant technical discipline.

Competencies

- Strong analytical capabilities, with the ability to evaluate technical information and propose solutions.
- Good communication skills to collaborate effectively with colleagues and stakeholders.
- Good organisational skills to manage tasks, priorities, and project-related activities efficiently.

Profile 8 - Plasma Systems

Department	Domain/Activity area	Location	Duration	Nr of position(-s) available
PROJECTS	Plasma Systems	Cadarache (France)	12 months	1

Description of tasks

- Assist the Neutral Beam Power Supplies (NBPS) Site Manager in supervising daily construction activities, monitoring work progress, and ensuring works are carried out according to drawings, specifications, and project plans, including supporting the assessment of Field Change Requests (FCR), Deviation Requests (DR), and Non-Conformance Requests (NCR).
- Support site coordination and interface management with stakeholders (IO, F4E, contractors, and subcontractors), including participation in coordination meetings, assisting with scheduling and planning activities, and helping track materials, deliveries, and equipment to ensure smooth workflow.
- Contribute to the implementation of site health and safety procedures by supporting inspections, ensuring compliance with safety rules and PPE requirements, and reporting potential hazards.
- Assist in monitoring construction quality and compliance with project standards through site inspections, documentation of quality checks and corrective actions, and maintaining site records such as daily logs, progress reports, site photos, and document control for drawings, procedures, control plans, and site instructions.

Your qualifications

- Bachelor's degree in Electrical Engineering, Instrumentation & Control Engineering, Mechanical Engineering, or another relevant technical discipline

Advantageous

- Understanding of construction processes, materials, drawings, and specifications, ensuring compliance with quality standards.
- General knowledge of site safety rules, hazard identification, and proper use of Personal Protective Equipment (PPE).

Competencies

- Ability to communicate with multicultural teams, subcontractors, and supervisors, and report progress or issues.
- Ability to support planning and tracking site activities, maintain records, identify issues, and demonstrate initiative and willingness to learn.

Department	Domain/Activity area	Location	Duration	Nr of position(-s) available
PROJECTS	Plasma Systems	Barcelona (Spain)	12 months	1

Description of tasks

- Contribute to the development of an interface monitoring system for Diagnostics to facilitate stronger coordination of internal interfaces between European systems, in particular for ports integration.
- Support system engineering and integration activities related to Diagnostics systems.
- Assist in configuration control and interface management processes.
- Participate in coordination and technical follow-up of interface, configuration control and integration or other transverse needs.

Your qualifications

- Bachelor's degree in System Engineering, Mechanical Engineering, or a related technical discipline.

Competencies

- Strong communication skills, with the ability to collaborate effectively with multidisciplinary teams.
- Methodical approach to system engineering and configuration control activities.
- Ability to manage and navigate data repositories and information systems efficiently.
- Analytical mindset, with the ability to understand technical interfaces and integration constraints.
- Organisational skills to manage documentation, configuration data, and engineering follow-up activities effectively.

Department	Domain/Activity area	Location	Duration	Nr of position(-s) available
PROJECTS	Plasma Systems	Barcelona (Spain)	12 months	1

Description of tasks

- Support mechanical engineering activities related to Electron Cyclotron Heating (ECH) projects, including launcher and gyrotron systems.
- Monitor the development of critical ECH technologies, such as cavity cooling solutions and alternative waveguide manufacturing techniques.
- Assist in the preparation of technical specifications and engineering documentation.
- Contribute to the technical follow-up of ongoing developments and related activities.
- Support reporting on progress and technical outcomes of the monitored developments.
- Contribute to activities supporting a broader approach related to JT-60SA.

Your qualifications

- Bachelor's degree in Mechanical Engineering, Thermal Fluids Engineering, or another relevant engineering discipline.

Advantageous

- Knowledge of mechanical engineering principles.
- Understanding of fluid mechanics and thermal systems.
- Interest in manufacturing techniques and engineering solutions.

Competencies

- Good communication and organisational skills, with the ability to work collaboratively within engineering teams.

Profile 9 - Broader Approach & Roadmap Projects

Department	Domain/Activity area	Location	Duration	Nr of position(-s) available
PROJECTS	Broader Approach & Roadmap Projects	Garching (Germany)	12 months	1

Description of tasks

- Perform beam dynamics simulations using the TraceWin code to analyse accelerator performance.
- Conduct beam dynamics simulations for the LIPAc (Linear IFMIF Prototype Accelerator) in its configuration for Phases C and D, corresponding to beam operation with the accelerator fully assembled.
- Carry out a range of simulation case studies, including degraded scenarios compared with the nominal configuration of the accelerator.
- Perform post-processing and critical analysis of simulation results obtained with TraceWin.
- Contribute proactively to identifying new case studies, optimisation opportunities, and improved accelerator configurations.

Your qualifications

- Bachelor's degree in Physics, Particle Physics, Nuclear Physics, or a related discipline.

Advantageous

- Strong interest and skills in computer simulation codes applied to scientific or engineering problems.
- Interest in beam dynamics and accelerator physics.

Competencies

- Proactive approach to problem-solving and ability to take initiative.
- Good teamwork skills, with the ability to collaborate effectively, share ideas, and contribute to common objectives.

Department	Domain/Activity area	Location	Duration	Nr of position(-s) available
PROJECTS	Test Blanket Modules & DEMO	Garching (Germany)	12 months	1

Description of tasks

- Review available R&D deliverables and literature, identifying the main results and relevant technical information.
- Organize data and R&D results in structured databases for easy access and analysis.
- Support in the mapping between R&D results & deliverables related to Tritium Breeding Blanket (TBB) Systems and Test Blanket Modules (TBM) Systems design requirement.
- Support the preparation of technical specifications for additional R&D activities.
- Participate in design activities for the development of the Test Blanket System.

Your qualifications

- Bachelor's degree in Nuclear, Industrial, Aerospace, Chemical, Materials, or Mechanical Engineering.

Advantageous

- Master's degree in a relevant discipline is an asset.
- Solid understanding of engineering principles and tools, including analytical modelling, thermodynamics, fluid dynamics, and mass and heat transport phenomena.

Competencies

- Proactive approach to problem-solving, with the ability to identify issues, propose solutions, and take initiative.
- Strong teamwork skills, collaborating effectively with colleagues, sharing ideas, and supporting the achievement of common goals.
- Good communication skills, both verbal and written, for clear and effective technical reporting and discussion.

Department	Domain/Activity area	Location	Duration	Nr of position(-s) available
PROJECTS	Broader Approach & Roadmap Projects	Garching (Germany)	12 months	1

Description of tasks

- Provide support to the Technical Responsible Officer (TRO) in activities related to the first wall design of JT-60SA.
- Assist in the preparation of contractual and technical documentation, including technical specifications.
- Support the preparation of load specifications for engineering analyses. Contribute to engineering design activities, including analyses and technical assessments.
- Assist in configuration control activities to ensure proper documentation and traceability of design changes.

Your qualifications

- Bachelor's degree in Nuclear Engineering, Industrial Engineering, Aerospace Engineering, Chemical Engineering, Materials Engineering, Mechanical Engineering, or another relevant engineering discipline.

Advantageous

- Solid understanding of engineering principles, methods, and tools.
- Ability to perform analyses, tests, or simulations supporting engineering activities.
- Familiarity with laboratory or testing equipment and experimental methods.
- Curiosity and a structured approach to investigating technical challenges.

Competencies

- Clear and concise technical communication skills.
- Ability to work effectively in a multidisciplinary team and organise assigned tasks.
- Proactive attitude and adaptability in learning new technical topics.

Department	Domain/Activity area	Location	Duration	Nr of position(-s) available
PROJECTS	Broader Approach & Roadmap Projects	Garching (Germany)	12 months	1

Description of tasks

- Provide support to the Technical Responsible Officer (TRO) in: Preparation of technical requirements and of technical specifications; Engineering design activities; Configuration control (e.g., space reservations, documentation updates).
- Contribute to Japan Torus (JT-60SA) machine enhancement activities.
- Assist in evaluation of technical reports related to engineering tasks.
- Support multidisciplinary collaboration across technical teams.

Your qualifications

- Bachelor's degree in Industrial Engineering, Mechanical Engineering, Electrical Engineering, Electronic Engineering or a closely related field.

Advantageous

- Solid understanding of engineering principles, methods, and tools.
- Ability to perform analyses, tests, or simulations supporting engineering activities.
- Curiosity and a structured approach to investigating technical challenges.
- Familiarity with laboratory or testing equipment and experimental methods.

Competencies

- Clear and concise technical communication skills.
- Ability to work effectively in a multidisciplinary team and organise assigned tasks.
- Proactive attitude and adaptability in learning new technical topics.

Profile 10 - Project Performance Management

Department	Domain/Activity area	Location	Duration	Nr of position(-s) available
PROJECTS	Project Performance Management	Cadarache (France)	12 months	2

Description of tasks

- Contribute to the development of project management tools to support the activities of the Building Services Programme
- Assist in the development of data visualisation tools and dashboards to support project monitoring.
- Support the team in schedule management, including monitoring progress and updating planning information.
- Assist in cost monitoring and reporting activities.
- Contribute to risk management processes by supporting risk identification, tracking, and reporting.

Your qualifications

- Bachelor's degree in Science, Engineering, or another relevant discipline.

Competencies

- Good analytical capabilities and ability to work with project data.
- Strong communication skills to support coordination and reporting activities.
- Good organisational skills to manage tasks and priorities effectively.
- Good knowledge of Excel and ability to work with data analysis and visualisation tools.

Profile 11 - Project Management / Quality processes

Department	Domain/Activity area	Location	Duration	Nr of position(-s) available
PROJECTS	Project Management / Quality processes	Cadarache (France)	12 months	1

Description of tasks

- Support the Head of Projects Department on tracking inefficiencies and improvement proposals in project management activities and processes.
- Assist in preparing, assessing, and following up on improvement proposals suggested by the Projects Department staff.
- Conduct interviews and gather information from Projects Department staff to collect feedback and improvement initiatives.
- Contribute to the preparation of stakeholder reporting documents related to the implementation progress.

Your qualifications

- Bachelor's degree in Business Management, Organisation, or another relevant qualification related to Project Management and Quality processes.

Competencies

- Strong communication skills, including the ability to interact with project staff and contribute to stakeholder reporting.
- Good analytical capabilities.
- Good organizational skills to manage information, coordinate follow-up activities, and support reporting tasks.

Profile 12 - Systems Integration & Performance

Department	Domain/Activity area	Location	Duration	Nr of position(-s) available
PROJECTS	Systems Integration & Performance	Barcelona (Spain)	12 months	1

Description of tasks

- Support Systems Engineering activities covering the lifecycle from requirements management to configuration management.
- Assist in maintaining and updating requirements documentation and related systems engineering records.
- Contribute to configuration management processes, ensuring consistency and traceability of system documentation and data.
- Support the preparation and organisation of system readiness reviews, including documentation and coordination tasks.
- Assist in managing information within data repositories and engineering information systems.

Your qualifications

- Bachelor's degree in Systems Engineering or another relevant technical discipline.

Competencies

- Good communication skills with the ability to collaborate with multidisciplinary engineering teams.
- Ability to work efficiently with data repositories and information management systems.
- Systems thinking and the ability to understand interactions between technical components and processes.