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JOB DETAIL

Ref. IO1878 - 8/1/2017

Tokamak Assembly Engineers - CST-078-81-85 to 88

Main job Mechanics**Department** CST / Construction Department**Division** CST / Tokamak Assembly Section/Division**Job Family** Engineer-1/2**Application Deadline
(MM/DD/YYYY)** 09/10/2017**Grade** P2/P3**Direct employment** Not required

Purpose Six positions of Assembly Engineers are required to:

- To support the development of Assembly strategies within Tokamak Construction teams;
- To develop Tokamak Assembly Contract work packages prior to their handover and execution;
- To review and confirm Assembly interfaces;
- To-reinforce assembly tool engineering.

Main duties / Responsibilities

- Develops Tokamak Assembly Engineering work packages on the basis of system engineering input:
 - o Review of input from engineering departments;
 - o Confirm relevant assembly strategies for the installation process;
 - o Identification of open points in the technical process;
 - o Verification and confirmation of input data with "Construction Management as Agent" (CMA);
 - o Review of Installation Work Packages prepared by CMA and Tokamak Assembly Contractors.
- Contributes to all additional technical documents necessary for Tokamak Assembly Contract execution;
- Surveys and monitors construction work execution;
- Fixes process interfaces between components or systems and related tools proposing layouts and concepts and alternative strategies to overcome assembly issues, to
- Contributes to design concepts of assembly tools, assures applicable quality and safety measures;
- Contributes to the Machine Assembly strategy development and maintenance;
- May be required to work outside ITER Organization reference working hours, including nights, weekends and public holidays;
- Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain;
- May be requested to be part of any of the Construction/Project Team and perform other duties upon management request;
- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.

Special notice: May be requested to work on beryllium-containing components. In this case, you will be required to follow the established ITER Beryllium Management Program for working safely with beryllium. Training and support will be provided by the ITER Organization.

- Reports to Tokamak Assembly Division Head;
- Acts as an horizontal interface between all Tokamak Assembly Construction Teams;

Measures of effectiveness

- In response to requests from the Director-General and/or Supervising Head, or proactively, informs the DG/Supervising Head of any important and urgent issues that cannot be handled by the concerned line management and may jeopardize the achievement of the Project's objectives.

- Maintains effective communications within the ITER Organization and within the Construction teams;
- Prepares engineering work packages in a timely manner to their execution in accordance with the project schedule;
- Prepares engineering work packages to ensure clarity of scope and with clear criteria to enable monitoring and surveillance;
- Surveys and monitors construction work execution;
- Generates and maintains accurate, coherent, comprehensive and understandable documentation within the defined timeline;
- Successfully implements nuclear safety, quality assurance and health & safety measures.

Project Construction Phase

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Level of study	At least Master's Degree or equivalent
Diploma	Mechanical Engineering or comparable fields
Level of experience	At least 8 years
Technical experience/knowledge	<ul style="list-style-type: none"> -At least 8 years' (5 years at P2 level) experience in construction of large industrial or fusion/nuclear projects; -Good understanding of the specific design, construction and assembly aspects of a Tokamak or similar experimental devices or high-technology equipment; -Experience in a nuclear or other highly-regulated environment and good understanding of nuclear safety aspects would be a definite advantage; -Knowledge and/or experience of structure fabrication, understanding of welding and non-destructive testing (including ultra-high vacuum leak testing) and complex assemblies; -Knowledge and/or experience of pipe installation is required for some positions; -Knowledge and/or experience of diagnostic installations, including complex cable routing in harsh environments is required for some positions; -Knowledge and/or experience of diagnostic installations, including complex cable routing in harsh environments is required for some positions.
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	<ul style="list-style-type: none"> -Experience of engineering aspects related to design, construction & use of specific assembly tools including application of codes and standards, safety & quality and tolerance management. Experience in the application of specific codes (e.g. ASME and/or EURO codes) would be an asset; -Experience of tools for lifting, handling and transportation of heavy components and structures would be an advantage; -Experience in writing technical specifications and documentation of all aspects related to assembly work; -Extensive knowledge of QA systems and their practical application; -Extensive experience in similar jobs (involving similar work responsibilities) and/or additional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree.
Others	<ul style="list-style-type: none"> -Ability to produce clear, concise documentation for technical content of tenders and contracts and to write clear and concise reports; -Experience of contract monitoring and follow-up. <ul style="list-style-type: none"> -Capability to take initiative, with a proactive attitude and personal drive; -Ability to work with a high level of autonomy when required; <ul style="list-style-type: none"> -Proficient in the use of the Microsoft office; -Working knowledge of CATIA v5/Enovia.
Languages	English (Fluent)

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