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JOB DETAIL

Ref. IO2031 - 10/23/2018

Tokamak Assembly Field Engineer (CST-146 & 147)

Main job Construction

Department CST / Construction Department

Division CST / Tokamak Assembly Division

Job Family Engineer - 2

**Application Deadline
(MM/DD/YYYY)** 12/09/2018

Grade P3

Direct employment Not required

Purpose Two openings

To develop and refine engineering and construction work packages for handover to Tokamak Assembly Contractor, in close collaboration with design teams and "Construction Management as Agent" (CMA);
To monitor and supervise the execution of construction activities, including qualification and training on the construction site.

Main duties / Responsibilities Develops engineering and construction work packages on the basis of system engineering input:

- o Confirms relevant assembly strategies for the installation process;
- o Identifies and resolves open points in the construction process;
- o Fixes process interfaces between components or systems and tools;
- o Proposes approaches to improve quality, and / or optimize cost and schedule;
- o Controls and confirms input data to Tokamak Construction Contractors with CMA;
- o Reviews Installation Work Packages prepared by CMA and Tokamak Assembly Contractors.

Defines the functional specifications of assembly tools, participating in review of designs and follow-up of manufacture;
Surveys and monitors construction work execution, anticipating and resolving difficulties to ensure construction progress to schedule;
Ensures that quality controls are properly implemented and documented during assembly on-site in collaboration with Quality Management Division;
Implements the technical control of the Protection Important Activities, as well as their propagation to the entire supply chain;
May be required to work outside normal working hours, including nights, weekends and public holidays;
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.

Measures of effectiveness Under the coordination of the Group Leader, reports to Tokamak Assembly Division Head;
Acts as an horizontal interface between all Tokamak Assembly Construction Teams;
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 Construction teams;
Prepares engineering work packages to ensure clarity of scope and with clear criteria to enable monitoring and surveillance;
Surveys and monitors construction work execution within the defined schedule and cost;
Generates and maintains accurate, coherent, comprehensive and understandable documentation within the defined timeline;

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	Successfully implements nuclear safety, quality assurance and health & safety measures.
Level of study	Master or equivalent degree
Diploma	Mechanical Engineering or comparable fields
Level of experience	At least 8 years
Technical experience/knowledge	<p>Good understanding of engineering design and design analysis; Knowledge of welding and non-destructive testing is required, including stainless steel and high strength nickel alloys. Experience of ultra-high vacuum leak testing would be an advantage;</p> <p>At least 8 years' experience leading and supervising all aspects of construction and / or commissioning activities on large industrial / process plant construction projects; Good knowledge of manufacturing processes, including experience with stainless steels, superconducting, cryogenic, or vacuum components; Good experience in writing technical specifications for complex construction works; Experience of lifting, handling and alignment of heavy components and structures would be an advantage; Experience in using large-volume portable metrology techniques and reverse engineering would be considered as an advantage.</p>
Specific skills	CATIA ENOVIA MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	<p>Experience in a nuclear or other highly-regulated environment and good understanding of nuclear safety aspects would be a definite advantage; Extensive knowledge of Quality Assurance systems and their practical application.</p> <p>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;</p> <p>Ability to dialogue with a wide variety of contributors and stakeholders; Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment; Ability to persist in the face of challenges to meet deadlines with high standards; Ability to gather multiple and diverse sources of information to understand problems accurately before moving to proposals; Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.</p>
Others	Familiarity with the use of CATIA/Enovia or similar systems would be an asset.
Languages	English (Fluent)

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