JOB DETAIL

Ref. IO1961 - 3/15/2018

Diagnostic Component Engineer - TED-166

Main job	Diagnostics
Department	TED / Tokamak Engineering Department
Division	TED / Port Plugs & Diagnostics Integration Division
Section	TED / PPD / In-Vessel Diagnostics Section
Job Family	Engineer - 1
Application Deadline (MM/DD/YYYY)	04/29/2018
Grade	P2
Direct employment	Not required
Purpose	To finalize the design, integration and procedures of distributed diagnostic components. To oversee their manufacture and assembly, primarily in the vessel and cryostat.
Main duties / Responsibilities	-Develops detailed engineering designs for distributed in-vessel and in-cryostat diagnostics at the component and sub-system levels. Systems include electrical systems, magnetic sensors, thermocouples and other instrumentation, solid and gas distribution; -Oversees the creation and adapt manufacturing designs and interfaces for components of distributed diagnostic systems in-the vessel and cryostat, including looms, brackets, attachment features, alignment jigs and tooling; -Drives and contributes to relevant integration activities; -Prepares technical specifications in support of procurement actions and their follow-up; -Develops design specifications and procedures for specialized tooling for the above described systems; -Oversees the production of components, including participation in manufacturing reviews, and handling Non-Conformance Reports; -Organizes reception and quality control of components and processes in respect of Quality requirements; -Specifies and oversees the creation and updates of electrical, fluid and other diagrams; -Maintains good safety and other records associated with manufacturing in the dedicated databases; -Supports assembly activities in practice and by synthesis of documentation; -May be required to work outside normal 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 project/construction teams and to perform other duties in support of the project schedule; -Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.
Measures of effectiveness	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 the In-Vessel Diagnostics Section Leader; -In response to requests from the Director-General and/or Tokamak Engineering Department Head (TED), or proactively, informs the DG/TED 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. -Work packages completed to agreed deadlines; -Developed and approved interface documentation, schematics plans and databases; -Developed and approved technical documentation for procurement; -Developed and approved installation plans; -Successful collaboration with technical partners in Domestic Agencies and other Directorates at IO; -Efficient work at all times with other Diagnostics team members. Project Construction Phase
Level of study	Master or equivalent degree
Diploma	Mechanical Engineering field or other

Level of experience	At least 5 years
Technical experience/knowledge	-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. -At least five (5) years' experience as integration engineer in a nuclear-relevant field, including two (2) in project engineering; -Experience in mechanical design for magnetics sensors and/or cabling or piping in a tokamak setting (Familiarity with design requirements for systems in vacuum, understanding of materials for vacuum-compatibility issues would be advantages); -Experience with the technical follow-up of CAD activity (Familiarity with CATIA and CAD oversight & with SEE-Vision would be an advantage); -Planning and costing ability for laboratory-scale projects and prototypes; -Participation in design defense in technical design reviews; -Familiarity with recognized engineering codes and standards;
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 professional (Access, Project, Publisher, Visio) MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	-Familiarity with production testing / inspection of components would be an advantage; -Ability to generate specifications for modelling and simulation would be an advantage;
Others	-Ability to facilitate dialogue with a wide variety of contributors and stakeholders; -Ability to adjust communication content and style to deliver messages; -Ability to persist in the face of challenges to meet deadlines with high standards; -Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity. -MS Office standard (Word, Excel, PowerPoint, Outlook); -Database experience management is considered as an advantage.
Languages	English (Fluent)