

IO1955 Magnetics Development Officer TED-165

General information

Job category	Standard
Status	Confirmed
Department	TED / Tokamak Engineering Department
Division	TED / Port Plugs & Diagnostics Integration Division
Section	TED / PPD / In-Vessel Diagnostics Section

Job description

Main job	Engineering - Design
Title of the position	Magnetics Development Officer TED-165
Job family	Engineer - 1
Grade	P2
Direct employment	Not required
Purpose	<p>To develop the designs of magnetic sensors and supporting infrastructures.</p> <p>To support the procurement, manufacture, installation, commissioning and Operation of these systems.</p>
Main duties / Responsibilities	<ul style="list-style-type: none">-Leads the design of the safety-relevant magnetics sub-system;-Develops detailed design and oversees procurement of magnetic sensors;-Develops calibration options;-Develops the interface design of the magnetics with the main tokamak components;-Prepares technical specifications for procurement actions in ITER Domestic Agencies or industry;-Drives the Design Review processes for IO magnetics sub-systems;-Updates and takes through review all relevant supporting engineering documents;-Contributes to construction activities;-Checks and maintains relevant ITER databases;-Communicates with other organizations within the ITER collaboration and the fusion community;-Supports the commissioning preparation activities;-Supports and contributes to relevant integration activities;-Specifies and oversees the creation and updates of electrical diagrams;-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	<p>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;</p> <ul style="list-style-type: none">-Reports to the In-Vessel Diagnostics Section Leader;-In response to requests from the Director-General (DG) and/or Tokamak Engineering Department (TED) Head 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. <ul style="list-style-type: none">-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 and commissioning plans;-Successful collaboration with partners in Domestic Agencies and other Directorates at IO;-Efficient work at all times with other Diagnostics team members

Applicant criteria

Level of study	Master or equivalent degree
Diploma	Engineering, applied physics field or other
Level of experience	At least 5 years
Technical experience/knowledge	<ul style="list-style-type: none"> -At least 5 years' experience in Diagnostic & Project Engineering; -Experience in a nuclear-relevant or industrial field; -Experience in design for magnetics sensors in tokamaks is considered as an advantage; -Experience of tokamak or other fusion device operation is considered an advantage; -Experience with basic electrical tests; -Experience with the technical follow-up of design activity; -Design defense lead in technical design reviews; -Experience in writing specifications for analysis; -Familiarity with codes and standards; -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.
Social skills	<p>Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit</p> <ul style="list-style-type: none"> -Ability to facilitate dialogue with a wide variety of contributors and stakeholders; -Ability to adjust communication content and style to deliver messages;
General skills	<ul style="list-style-type: none"> -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. -Proven presentation writing skills.
Languages	English (Fluent)
Specific skills	Computer Aided Design, MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	<ul style="list-style-type: none"> -Coding experience (C++, Matlab, other); -Familiarity with CAD oversight & with P&I Diagrams.