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JOB DETAIL

Ref. IO1688 - 4/14/2016

Diagnostic Engineering Physicist TED-065

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| Main job | Science or Technology |
| Department | TED / Tokamak Engineering Department |
| Division | TED / Port Plugs & Diagnostics Integration Division |
| Section | TED / PPD / In-Vessel Diagnostics Section |
| Job Family | Scientist-2 |
| Application Deadline (MM/DD/YYYY) | 05/15/2016 |
| Grade | P3 |
| Direct employment | Not required |
| Purpose | <p>To manage the procurement arrangements for Low Field Side Reflectometry (LFSR), High Field Side Reflectometry (HFSR), Plasma Position Reflectometry (PPR) and Soft X-ray (SXR) systems. To maintain interfaces for all four systems. To supervise the design, R&D and direct procurement of IO-supplied components, such as stray mm-wave (ECH) sensors and metallic (Be) windows. To organize and verify all supporting calculations. To plan and agree all necessary assembly and commissioning activities for these systems.</p> <ul style="list-style-type: none">• Oversees construction of the Low Field Side Reflectometry (LFSR), High Field Side Reflectometry (HFSR), Plasma Position Reflectometry (PPR) and Soft X-ray (SXR) systems;– Provides oversight to Domestic Agency (DA) activities;– Leads interfaces and other ITER Organization (IO) activities;– Manages the commissioning preparation activities;– Plans and specifies assembly and integration activities on site;– Ensures Domestic Agency (DA) and ITER Organization (IO) schedules are compatible at all times;• Manages supporting ITER Organization (IO) projects (stray mm-wave (ECH) sensors and metallic (Be) windows);– Leads the supply of the system;– Specifies all system requirements;– Determines, organizes and executes all supporting R&D and qualification processes;– Manages the hardware and software direct procurement activity;– Manages the commissioning preparation activities;– Plans and specifies assembly and integration activities on site; |
| Main duties / Responsibilities | <ul style="list-style-type: none">• Develops the detailed design of stray mm-wave (ECH) sensors and metallic (Be) windows;– Develops calibration strategies in the context of systems;– Develops the design of interfaces;– Drives and contributes to relevant integration activities;– Specifies and oversees the creation and updates of 2D diagrams and CAD models;– Updates and takes through review all relevant supporting engineering documents;– Leads the design review processes;– Prepares technical specifications for procurement with industry;– Checks and ensures maintenance of relevant ITER databases.• Monitors service contracts including visits and deliverables;• Reports variances on all technical, cost and schedule aspects immediately to the Section Leader;• Supports effective risk identification and management;• Manages the change control process for the work and communicates changes to the line management;• Maintains related documentation at all times on the ITER Document System and ensure it is updated and in the correct formats; Ensures the Division is well represented |

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| | <div>from an engineering perspective;</div> <div><ul style="list-style-type: none">• Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;• May be requested to be part of any of the project team and performs other duties upon management request;• Maintains a strong commitment to the implementation and perpetuation of the ITER safety program, values and ethics.</div> <div><ul style="list-style-type: none">• Reports directly to the In-Vessel Section Leader;• Interfaces with ITER Technical Departments, as required;• Communicates with other organizations within the ITER collaboration and the fusion community;• In response to requests from the Director-General and/or Head of Tokamak Engineering Department (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.</div> |
| Measures of effectiveness | <div><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 plans;• Successful collaboration with technical partners in Domestic Agencies and other Directorates at IO;• Efficient work at all times with other Diagnostics team members.</div> |
| Project Construction Phase | |
| Level of study | PhD or equivalent degree |
| Diploma | Physics or Engineering |
| Level of experience | At least 6 years |
| Technical experience/knowledge | <div>Basic knowledge on nuclear effects on materials.</div> <div><ul style="list-style-type: none">– At least 6 years' experience in a fusion-related field;– Proven experience in the design of plasma diagnostic systems;– Proven participation in experimental operations at a large device;– Documented expertise in development and operation of mm-wave and soft X-ray diagnostics for plasma physics related projects;– Experience in coordinating teams' activities;– Ability to project costs and resources for technical projects;– Experience with design defense in technical design reviews;– Experience with the technical follow-up of CAD activity;– Familiarity with electrical diagrams.</div> |
| Social skills | <div>Ability to work effectively in a multi-cultural environment</div> <div>Ability to work in a team and to promote team spirit</div> |
| Specific skills | <div>CATIA</div> <div>MS Office standard (Word, Excel, PowerPoint, Outlook)</div> |
| General skills | <div><ul style="list-style-type: none">– Proven presentation writing skills;– Track record of first author publications in English;</div> |
| Languages | English (Fluent) |