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JOB DETAIL

Ref. IO1695 - 4/14/2016

Ion Cyclotron Mechanical Engineer - TED-051

Main job	Mechanics
Department	TED / Tokamak Engineering Department
Division	TED / Heating & Current Drive Division
Section	TED / HCD / Ion & Electron Cyclotron Section
Job Family	Engineer - 1
Application Deadline (MM/DD/YYYY)	05/15/2016
Grade	P2
Direct employment	Not required
Purpose	<ul style="list-style-type: none"><li>- Together with the Ion Cyclotron Heating (ICH) &amp; Current Drive (CD) team, to develop the final mechanical design of the ICH &amp; CD antenna.</li><li>- To achieve compliance of the antenna design with the nuclear codes and standards.</li><li>- To develop technical specifications for R&amp;D aiming to qualify manufacturing techniques for key antenna components; in particular for components having a nuclear safety function</li><li>- To support ICH component development, in all aspects related to mechanical engineering and safety. In particular to assist the Technical Responsible Officers of Radio Frequency sources, Transmission lines and High Voltage Power Supply subsystems.</li></ul>
Main duties / Responsibilities	<ul style="list-style-type: none"><li>- Contributes to the preparation of the Built to Print antenna package;</li><li>- Ensures requirements are detailed and expressed in design inputs;</li><li>- Prepares R&amp;D specifications to support design development and qualification;</li><li>- Implements and assesses compliance of design solutions with the relevant codes and standards;</li><li>- Develops justification plans (safety road maps) for components in relation with a safety function</li><li>- Assesses design justifications provided by contributing Domestic agencies;</li><li>- Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;</li><li>- May be requested to be part of any of the project team and performs other duties upon management request;</li><li>- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</li></ul> <ul style="list-style-type: none"><li>- Reports to Ion Cyclotron responsible officer;</li><li>- Interacts with ITER Organization (IO) and Domestic Agencies (DA) Technical Responsible Officers for IC system,</li><li>- Interacts with IO Responsible Officer of systems which have an interface with the IC system</li><li>- 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.</li></ul>
Measures of effectiveness	<ul style="list-style-type: none"><li>- Develops the mechanical design of Ion Cyclotron (IC) antenna components to quality, schedule and cost;</li><li>- Develops accurate design justification plans for safety important components within the defined deadlines;</li><li>- Reports on compliance of design proposals with codes and standards;</li><li>- Analyses the integration and requirements compliance of design proposals;</li><li>- Efficiently supports the IC H&amp;CD team in mechanical developments.</li><li>- Prepares R&amp;D technical specifications related to final design of the antenna and integration of other sub systems</li></ul>

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	Project Construction Phase
Level of study	Master or equivalent degree
Diploma	Mechanical Engineering/Design
Level of experience	At least 5 years
Technical experience/knowledge	<div>- Knowledge of international and French industrial codes and standards (RCC-MR, ASME 8, SDC-IC, etc...) and good appreciation of quality assurance procedures.</div> <div>- At least 5 years' experience in mechanical design and/or design on Heating Current Drive (HCD) system(s) is required;</div> <div>- Experience in technical integration of complex mechanical systems is required;</div> <div>- Experience in mechanical engineering in areas relevant to the ITER environment (e.g. Remote handling, Ultra High Vacuum (UHV) environment, nuclear environment, high heat flux components) is required;</div> <div>- Experience in manufacturing follow up is required;</div> <div>- Experience in the technical design of Ion Cyclotron Resonance Heating (ICRH) antennae or tokamak components is considered an advantage.</div> <div>- Basic Project Management experience is required.</div>
Project experience	1 to 2 years
Social skills	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
Specific skills	CATIA MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	<div>- Good working knowledge of spoken and written English is essential.</div> <div>- French language skills would be an advantage to prepare documents on regulatory issues</div>
Others	<div>- MS Office</div> <div>- CAD Packages, Ansys, etc. Knowledge of Catia V5 is an advantage.</div>
Languages	English (Fluent)

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