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## JOB DETAIL

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Ref. IO1071 - 2/1/2010

## Heating and Current Drive Division Head - CHD-010

<b>Main job</b>	Executive Management
<b>Departments</b>	CHD/Department for CODAC and IT, Heating and CD, Diagnostics
<b>Divisions</b>	CHD / Heating and Current Drive Division
<b>Type of contract</b>	Fixed term contract
<b>Application Deadline</b>	2/28/2010
<b>Grade</b>	D1
<b>Direct employment</b>	Required
<b>Purpose</b>	ITER's Heating and Current Drive systems (HCD) provide the means to operate the plasma. They are a central part of the tokamak core and consist of various radio frequency (RF) systems as well as neutral beams and diagnostic neutral beam accelerators. Leading a group of engineers and technicians to procure the ITER's HCD components is essential in the coming years. In addition substantial design, research & development related to the ITER HCD systems as well as the integration of the Heating system packages on ITER is required. Overall integration into the project schedules to complete the commissioning of the systems as per the integrated project schedule (IPS) is necessary to achieve ITER's operational performance. Heating and Current Drive systems in ITER include neutral beams for heating (HNB) and diagnostics (DNB), ion cyclotron heating & current drive (ICH & CD) system, electron cyclotron heating and current drive (ECH & CD) system and lower hybrid current drive (LHCD) System.
<b>Main duties / Responsibilities</b>	<ul style="list-style-type: none"> <li>• Provides effective leadership for the Division, ensuring that team members are motivated and constantly developing their skills and experience;</li> <li>• Manages the specification, procurement, assembly, and installation of the ITER HCD Systems;</li> <li>• Manages the integration and the design of the interfaces with other tokamak systems;</li> <li>• Effectively interfaces with the ITER Domestic Agencies responsible for procurement;</li> <li>• Oversees and manages all technical aspects of these systems, develops detailed implementation plans for all work, and monitors and controls costs and schedules for all group activities;</li> <li>• Ensures that the engineering design of the associated systems meets the requirements of the ITER machine;</li> <li>• Supervises the scientists and engineers responsible for the design and timely procurement of all associated systems;</li> <li>• Shows strong commitment to the ITER Quality Assurance and Safety Program and enforces it through individual behaviour and in his/her organization;</li> <li>• Maintains a strong commitment to the implementation and perpetuation of ITER values and ethics.</li> </ul>
<b>Measures of effectiveness</b>	<ul style="list-style-type: none"> <li>• Successfully builds up the Division and manages it effectively;</li> <li>• Successfully maintains effective communication within the Division, with all interfacing ITER organizations, and with the Domestic Agencies;</li> <li>• Completes design and procurement of the ITER HCD Systems in a timely manner and within the defined cost;</li> <li>• Successfully organizes R&amp;D at ITER Member parties.</li> </ul>
<b>Level of study</b>	PhD or equivalent degree
<b>Diploma</b>	Physics or other relevant disciplines
<b>Level of experience</b>	15 to 20 years
<b>Technical experience</b>	<ul style="list-style-type: none"> <li>- At least 15 years of relevant experience in accordance with the position's responsibilities;</li> <li>- Experience in the physics of plasma heating and current drive based on radio frequency ( ion cyclotron, electron cyclotron, &amp;/or lower hybrid ) and beams;</li> </ul>

- Experience in the design, installation and operation of HCD systems would be an advantage;
- Knowledge of the ITER HCD systems and their technical requirements would be an advantage;
- Ideally the successful candidate should have experience working on a large fusion device.

<b>Project experience</b>	10 to 15 years
<b>People management experience</b>	10 to 15 years
<b>Social skills</b>	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team work
<b>General skills</b>	MS Office professional applications (Access, Project, Publisher, Visio ) MS Office standard applications (Word, Excel, Powerpoint, Outlook)
<b>Specific skills</b>	Skills consistent with managing a complex developmental project.
<b>Languages</b>	English (Fluent)

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