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## JOB DETAIL

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Ref. IO1097 - 6/27/2010

**Instrumentation/Control Engineering Officer CHD-29**

<b>Main job</b>	Control system
<b>Departments</b>	CHD/Department for CODAC and IT, Heating and CD, Diagnostics
<b>Divisions</b>	CHD / CODAC and IT Division
<b>Sections</b>	CHD / CIT / CODAC Section
<b>Job Family</b>	Project engineering
<b>Application Deadline</b>	8/1/2010
<b>Grade</b>	P2
<b>Direct employment</b>	Not required
<b>Supervised by:</b>	Division Head
<b>Purpose</b>	To support the CODAC & IT Division by defining and coordinating the System Engineering life cycle of Plant Systems procured in kind from ITER's seven Domestic Agencies (DAs) in addition to following-up specification, construction, acceptance testing and integration of industrial Plant Control Systems into the supervisory CODAC control system.
<b>Main duties / Responsibilities</b>	<ul style="list-style-type: none"> <li>- Develops and coordinates the engineering design of industrial plant system Instrumentation &amp; Control;</li> <li>- Contributes to specification, acceptance tests, system integration and operation activities of in kind delivered plant systems;</li> <li>- Applies System Engineering methodologies to manage plant system Instrumentation &amp; Control manufacturing included in procurement packages;</li> <li>- Interacts, according to needs, with design and manufacturing teams in DAs;</li> <li>- Organizes the procurement and support of standardized control components using Supervisory Control And Data Acquisition (SCADA), Programmable Logic Controls (PLCs) and Field buses;</li> <li>- Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</li> </ul>
<b>Measures of effectiveness</b>	<ul style="list-style-type: none"> <li>- Successfully establishes ITER-wide standards related to industrial controls;</li> <li>- Successfully organizes plant system procurement using standard methodologies;</li> <li>- Successfully prepares and controls the technical specifications of allocated procurement packages;</li> <li>- Successfully prepares acceptance tests to enable the integration of plant systems into the ITER control system;</li> <li>- Successfully supports the project's needs in regard to industrial controls.</li> </ul>
<b>Level of study</b>	Master or higher degree
<b>Diploma</b>	Engineering, Science or other relevant disciplines
<b>Level of experience</b>	At least 5 years
<b>Technical experience</b>	<ul style="list-style-type: none"> <li>- 5-12 years' practical experience in a research or industrial environment with a similar scope of work;</li> <li>- Expert knowledge of industrial controls is required;</li> <li>- Proven project management experience is mandatory;</li> <li>- A clear understanding of the problems linked to planning and production of a large facility's control system is required;</li> <li>- Experience in implementing control systems with high availability and reliability is required;</li> <li>- A solid background in physics would be an asset.</li> </ul>
<b>Social skills</b>	Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit
<b>General skills</b>	MS Office professional (Access, Project, Publisher, Visio ) MS Office standard (Word, Excel, PowerPoint, Outlook) Sharepoint
<b>Specific skills</b>	- Demonstrated managerial skills to lead a team of 10 to

15 engineers;  
– Good knowledge of computer operating systems,  
software development tools, programming languages,  
physical network and network protocol standards are  
mandatory.

**Languages** English (Fluent)

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