## the way to new energy



**JOB DETAIL** 

Ref. IO1402 - 4/2/2014

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## 3D CAD Engineer TCWS-016, TCWS-017 & TCWS-018

	Main job	Design		
	Department	DIP/Directorate for Plant System Engineering		
	Division	PSE/Plant Engineering Division		
	Section	PSE/ PED/ Cooling Water System Section		
	Job Family	Technician - 3		
	Application Deadline	04/23/2014		
	Grade	G4		
	Direct employment	Required		
	Purpose	[Job offer for 3-year contract] This post includes a total of 3 vacancies: TCWS-0016, TCWS-017 & TCWS-018		
		To finalize the configuration and detailed 3D models, the support drawings, isometrics and other input to complete the final design, the procurements, the pre-assembly and the installation of the Tokamak Cooling Water System (TCWS); To execute technical studies and reviews on the TCWS layout, diagrams and drawings; To support the Cooling Water System (CWS) Section for the preparation of the Bill of Materials and the technical specifications for manufacturing of the TCWS.		
	Main duties / Responsibilities	Supports the TCWS technical Responsible Officers in the preparation of 3D detailed drawings, isometrics, drawings of piping supports and the general Bill of Materials for the		
	Measures of	<ul> <li>development of technical specifications for piping lines, piping supports, and valves for the procurement, preassembly and installation of the TCWS on ITER worksite;</li> <li>Produces supports drawings, isometric drawings, calculations report for supports and systems;</li> <li>Develops the TCWS 3D design using appropriated Computer Aided Design (CAD) software for plant design;</li> <li>Contributes to verifying the coherency between the 2D drawings (e.g. Piping &amp; Instrumentation Diagrams) and 3D models in order to issue the bill of materials for TCWS procurement;</li> <li>Supports integration, clarification of interfaces and conflict resolutions of the TCWS piping and equipment with all the interfacing clients, other disciplines and Departments;</li> <li>Collaborates actively with Civil/Structural and Stress engineers to produce drawings and neutral files as input for the relevant piping and support stress analysis;</li> <li>Reviews the documents, diagrams, drawings and 3D models prepared by the Domestic Agencies and the suppliers to ensure conformance with project specifications, scope of work, design parameters, codes, and industry practices;</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>Performs other duties linked to the above purpose upon management request, as necessary;</li> <li>Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</li> </ul>		
	Measures of effectiveness	<ul> <li>Reports to the Cooling Water System Section Leader;</li> <li>Acts as an interface with other internal and external resources for the final design, the procurements, the preassembly and the installation of the TCWS;</li> <li>In response to requests from the Director-General and/or Plant System Engineering (PSE) Directorate Director, or proactively, informs the DG/PSE Directorate Director 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>		

	<ul> <li>Provides accurate technical input to effectively support the Cooling Water System (CWS) piping and equipment design, procurement, installation and testing within the defined time schedule;</li> <li>Produces 2D-3D CAD drawings for Cooling Water System components and/or piping / supports in a timely manner;</li> <li>Produces the required reports on time and in accordance with a high quality standard.</li> <li>Project Construction Phase</li> </ul>		
Level of study	Master or equivalent degree		
Diploma	Nuclear or Mechanical Engineering		
Level of experience	At least 3 years		
Technical experience	- At least 3 years' experience in piping engineering and		
	<ul> <li>At least 3 years' experience in the design and construction of complex systems and projects.</li> </ul>		
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		
	ENOVIA		
	MS Office professional (Access, Project, Publisher, Visio) MS Office standard (Word, Excel, PowerPoint, Outlook)		
General skills	Computer and IT skills: Knowledge of MS Office standard (Word, Excel, Visio		
	<ul> <li>Nowledge of MS office standard (Word, Excel, VISIO, PowerPoint, and Outlook) is required;</li> <li>Good knowledge of 2D-3D CAD software is required (AutoCAD, CATIA\ENOVIA, SSD INTEGRAPH SP3D-SPP&amp;IDs, AVEVA PDMS or E3D);</li> <li>Basic knowledge of piping stress analysis software is an advantage (CAEPIPE, CAESAR II).</li> </ul>		
Languages	English (Working)		

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