



the way to new energy

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JOB DETAIL

Ref. IO1765 - 9/23/2016

Mechanical Engineer - PED-058

Main job	Mechanics
Department	PED / Plant Engineering Department
Division	PED / Cooling Systems Engineering Division
Section	PED / CSED / VVPSS Systems & Auxiliary Function Section
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	11/06/2016
Grade	P3
Direct employment	Not required
Purpose	<p>-The primary purpose is to design and to perform structural analysis by using the AVEVA PDMS and Catia 3D Models according to the ASME ANSI Codes as well as RCC-MR of the mechanical components, piping and systems within the scope of VVPS section.</p> <p>-The secondary purpose is to design and to perform structural analysis for piping configurations and mechanical systems and components for ITER Project.</p> <p>-The additional purpose is to work closely with the team in charge of the system process to produce the most suitable design to fulfill the requirements, supporting them with calculations and verifications involving thermal analysis as well as shock wave propagation phenomena.</p>
Main duties / Responsibilities	<p>-Develop the design of piping, components and mechanical systems;</p> <p>-Produce static and dynamic structural analysis and associated reports of the piping systems, supports and mechanical components;</p> <p>-Manage the compliance of the mechanical design with the project requirements, assuring the proper management of the interfaces and integration with the building and other systems;</p> <p>-Perform calculations of the loads on the supports, assuring the compliance of the design with the allowable loads on the building interface;</p> <p>-In support to the mechanical design to perform thermal and process analysis in a fully integrated manner;</p> <p>-Develops 3D models as part of the design process assuring the proper integration with the overall ITER configuration;</p> <p>-Follow up and provide guidance to CAD designer to produce models and drawings;</p> <p>-Performs other duties as required in support of the project schedule;</p> <p>-May be requested to be part of any of the project team dealing with the above activities and perform other duties;</p> <p>-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.</p> <p>-Reports to the VVPS Section Leader;</p> <p>-Acts as an interface with other internal and external resources for the design of the piping systems and associated supports and other mechanical structures as well as for the process management;</p> <p>-In response to requests from the Director-General and/or Plant Engineering Department (PED) Head, or proactively, informs the DG/ PED Head of any important and urgent issues to be properly managed not to jeopardize the achievement of the Project's objectives.</p>
Measures of effectiveness	<p>-Issue the stress analysis reports of the piping systems, supports and mechanical structures on time and with a high quality standard;</p> <p>-Issue the Construction Work Packages to support construction activities;</p> <p>-Issue the technical procurement specifications for piping, on line components, supports and other mechanical structures;</p> <p>Supports efficiently design and manufacturing activities;</p>

My space

 See jobs

My job alert

-Assures compliance with safety and functional requirements.

Project Construction Phase

Level of study	At least Master's Degree or equivalent
Diploma	Mechanical or in Nuclear Engineering
Level of experience	At least 8 years
Technical experience/knowledge	<div>-Good knowledge of design of piping supports and mechanical systems; -Extensive experience in similar jobs (involving similar work responsibilities) and/or additional training certificates in relevant domains may be considered a reasonable substitute for the required educational degree. -Good knowledge of linear and non-linear structural analysis including buckling analysis; -Excellent knowledge of structural design codes AISC, Eurocode, ASME, RCC M is desirable; -Knowledge of fluid processing, of simulation tools for process design as well as of CFD tools would be desirable. -At least 8 years' experience in nuclear or mechanical engineering; -Experience in the seismic design of piping systems /supports and steel structures for large facilities; -Basic experience in the System Engineering of complex projects; -Knowledge of the EU PED or French ESP/ESPN regulations and practical application will be considered advantageous;</div>
Social skills	<div>Ability to work effectively in a multi-cultural environment Ability to work in a team and to promote team spirit</div>
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
General skills	<div>-Experience in process design especially in gas handling systems as well as in process control would be desirable; -Basic Project Management experience is appreciated.</div>
Others	<div>-Excellent Knowledge of Caesar II / CAE Pipe piping structural analysis software and GT – Strudl, Staad Pro or similar software; -Good knowledge of FEM analysis software (ANSYS); -Good knowledge of 2D-3D CAD software (AVEVA PDMS and Catia); -Excellent knowledge of MS Office standard (Word, Excel, PowerPoint, and Outlook) is required.</div>
Languages	English (Fluent)

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