

# IO1440 CAD Designer PSE-375 to 384

## General information

Job category	Standard
Status	Published
Department	DIP/Plant System Chief Engineer

## Job description

Main job	Computer Science - Computer Aided Design
Title of the position	CAD Designer PSE-375 to 384
Job family	Technician-3 or Coordinating Technician
Grade	G4 or G5
Direct employment	Required
	[Job offer for 3 or 5 year contract] 10 openings to be filled at G4 or G5 levels
Purpose	<p>Important notice: If you are interested in this vacancy, please fill in your application in the E-recruiting system of the IO website. Thereafter, you will receive a questionnaire within one week after your application is completed. To be eligible after nomination by the Domestic Agency, the applicant must complete the on-line questionnaire regarding technical skills &amp; experience within 5 calendar days after having received the email request from the ITER Organization. Your application will be considered as not valid if you do not answer the questionnaire within the given timeframe.</p> <p>Note: if you are also applying for PSE-331 to 374, the questionnaire shall be filled in only once.</p>
Main duties / Responsibilities	<p>To execute design and engineering tasks on a range of mechanical and/or plant systems under the instruction of the Plant Breakdown Structure (PBS) Responsible Officer (RO);</p> <p>To apply best industrial practices in the area of Computer Aided Design (CAD) manufacture-ability, design integration, installation, commissioning and maintainability;</p> <p>To support design activities performed in a remote design collaboration manner;</p> <p>To control and manage CAD data and related databases;</p> <p>To propose solutions &amp; corrective actions;</p> <p>To implement CAD Quality Assurance (QA) and Quality Control (QC) requirements and measures.</p> <p>Supports the PBS RO in the execution of technical studies, changes requests and design reviews involving multi-disciplines schematics, configuration models, detailed models and drawings for mechanical or/and plant equipment/systems;</p> <p>Supports the PBS RO in the procurement follow up via assessing speedily and efficiently design change requests and non-conformities; checking of manufacturing drawings;</p> <p>Produces General Arrangements, layout drawings, room bookings, bills of materials, support and interface drawings, isometrics, 3D simulations, tagging and other CAD data to support the final design, the procurement, the pre-assembly, the installation and the commissioning of the equipment;</p> <p>Alerts on new issues and any deviation;</p> <p>Supports integration, interface clarification and solving of design &amp; integration issues with a high level of autonomy;</p> <p>Develops / converts files for dedicated analysis;</p> <p>Prepares CAD design Work Packages performed in a remote design collaboration manner, monitors and controls the CAD work on specific systems provided by Companies;</p> <p>Updates and maintains CAD data and related databases;</p> <p>Ensures efficient usage of the CAD infrastructure;</p> <p>Contributes to the identification of miss-functioning and improvements of the CAD infrastructure and implements corrective actions;</p> <p>Supports design activities associated to: standardization and catalogues, CAD data exchanges, maintenance of the context and configuration branches;</p> <p>Implements QA requirements and measures;</p> <p>Performs QC including CAD data cursory checks, collision checks, coherence checking between schematics and 3D, compliance with project specifications, best industry practices and CAD Manual;</p>

Measures of effectiveness	Provides written reports;
	Specific duties for CAD Designer at G5 level: Analyzes complex multi-disciplines / integration & design issues, proposes options and selection of most adequate solution, with a high level of autonomy; Performs preliminary stress / performance analysis.  Performs other duties in support of the project schedule as described in the CAD Work-plan, Detailed Work Schedule and the Strategic Management Plan; Performs other duties linked to the above purpose upon management request, as necessary; Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, values and ethics.
	Provides accurate technical input to effectively support the equipment design, procurement, installation and testing within the defined time schedule; Produces CAD deliverables in a timely manner with a high quality standard; Provides design & integration solutions with a high level of autonomy; To implement Quality Control (QC) requirements and measures; Produces the required reports on time and in accordance with a high quality standard; Performs multi-tasking while adjusting quickly to new systems, issues and working environment.
Project Construction Phase	

## Applicant criteria

Level of study	At least Bachelor's degree or equivalent
Diploma	Technical Engineering field or other relevants
Level of experience	Please refer to G4 or G5 specific requirements
Technical experience	Technical Engineering field refers to electro-mechanical, civil & industrial buildings, fluidic proc., power-supply & control, QA, and CAD. Experiences considered as an advantage: Int'l project preferably in fusion and/or nuclear energy involving large components and structures, support systems, high-power circuits & buildings and complex interfaces; In a remote design collaboration environment; In 3D tolerance studies; Control deliverables from int'l subcontractors with regards to technical requirements and CAD quality;
	In design support activities id an advantage: CAD data exchanges, catalogue development and maintenance, software administration and support, CAD QA.
	For G4 level, at least 5 years' expce in a Design Office covering at least 15 of the topics described in the questionnaire required (see purpose);  For G5 level, at least 7 years' expce in a Design Office covering at least 20 of the topics described in the questionnaire required (see purpose).
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit  Computer and IT skills:
General skills	For G4 level, at least 3 years' experience in design work involving an advanced CAD system, including CATIA V5 and experience in at least 5 of the CAD tools described in the questionnaire (see purpose), are required;  For G5 level, at least 5 years' experience in design work involving an advanced CAD system, including CATIA V5, and experience in at least 7 of the following CAD tools described in the questionnaire (see purpose) are required.
Languages	English (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	Works under the technical coordination of the Plant Breakdown Structure Responsible Officer; Acts as an interface with other internal and external resources for the final design, the procurements, the pre-assembly and the installation of the equipment; 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.