

# IO1353 Design and Analysis Assistant TKM-061

## General information

Job category	Standard
Status	Published
Department	DIP/Directorate for Tokamak
Division	TKM / Vessel Division
Section	TKM / VV / Cryostat and VVPS Section

## Job description

Main job	Engineering - Mechanics
Title of the position	Design and Analysis Assistant TKM-061
Job family	Technician - 3
Grade	G4
Direct employment	Required
Purpose	<p>To support development of designs for mechanical systems and components of Cryostat and VVPSS.</p> <p>To work one finite element models, meshes and perform structural, seismic and thermohydraulic analyses.</p> <p>To develop digital data input for analyses.</p> <ul style="list-style-type: none"><li>- Prepares Finite Element (FE) meshes and perform the analysis for structural, seismic and thermohydraulic analysis of Cryostat and VVPSS components;</li><li>- Develops digital data input (mainly related to component geometry) for analyses;</li><li>- Assists in setting up and maintaining computer based analysis data libraries;</li><li>- Defines the input data and boundary conditions for various analyses;</li><li>- Performs the relevant analyses and quick assessments;</li><li>- Prepares the analysis reports and related Memos;</li><li>- Assists on the development of designs for mechanical systems and components, including model and 2D drawing checking, and assessment of tolerances and tolerance studies;</li></ul>
Main duties / Responsibilities	<ul style="list-style-type: none"><li>- Works with CAD designers during design and model preparation (including design improvement);</li><li>- With input from the technical staff, participates in the development of technical reports and documents;</li><li>- Assist in the design of the mechanical components as per the ASME and or RCC-MR code;</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	<p>Reports to Cryostat &amp; VVPSS Section Leader;</p> <p>Interacts with members of the ITER Tokamak Directorate, Systems Engineering Analysis &amp; Standards Section, as well as external organizations;</p> <p>In response to requests from the Director-General and/or Tokamak Director, or proactively, informs the DG / Tokamak 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.</p> <p>Completing the design and analysis activities of the Cryostat and VVPSS components and write the draft reports in a timely manner and within defined budget;</p> <p>Help in generating the final design and analysis reports and maintains coherent, comprehensive, and understandable design and analysis documentation;</p> <p>Provide efficient and high quality service to the Section and division members;</p> <p>Establish a good collaboration attitude with all members of the Tokamak Directorate.</p> <p>ID SAP: 50000654</p> <p>Project Construction Phase</p>

Applicant criteria

Level of study	Bachelor or equivalent degree
Diploma	Mechanical field or other relevant discipline
Level of experience	At least 5 years
Technical experience	<div><div>- Experience in a similar position in a large multidisciplinary project;</div><div>- At least 3 years' experience of ASME code and design by analysis rules;</div><div>- Previous successful experience in research area and/ or engineering project;</div><div>- At least 3 years' experience of ANSYS.</div></div>
Social skills	Ability to work effectively in a multi-cultural environment , Ability to work in a team and to promote team spirit
General skills	<div>Excellent organizing skills and co-ordination skills will the ability to set priorities and meet deadlines;</div> <div>Excellent communication skills and capability to work towards department goal with a high level of autonomy;</div> <div>Demonstrated ability to produce high quality results;</div> <div>High level of reliability and dependability.</div>
Languages	English (Working)
Specific skills	MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	<div>- Working knowledge of finite element codes;</div> <div>- Working knowledge of CAD systems (particularly CATIA V5).</div>