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JOB DETAIL

Ref. IO1775 - 10/10/2016

Dimensional Verification Engineer - CST-046

Main job	Metrology
Department	CST / Construction Department
Division	CST / Tokamak Assembly Section/Division
Job Family	Engineer - 2
Application Deadline (MM/DD/YYYY)	11/20/2016
Grade	P3
Direct employment	Not required
Purpose	To provide metrology expertise for determining and analyzing the as-built status of the ITER Tokamak components and assemblies.
Main duties / Responsibilities	<p>-Reviews metrology procedures, dimensional inspection plans and manufacturing inspection plans to ensure compliance with the ITER Dimensional Metrology Handbook;</p> <p>-Reviews incoming metrology data relating to key machine components to validate compliance with technical specifications;</p> <p>-Carries out surveillance of construction activities to ensure consistent approaches to metrology tasks in collaboration with system designers;</p> <p>-Supports the Section/Division Head in matters related to the metrology, dimensional inspection and analysis;</p> <p>-Interfaces closely with the Design Integration Team to ensure full traceability of data is maintained through the supply chain and construction activities;</p> <p>-Provides assistance and guidance in the application of metrology techniques to technical departs within the project;</p> <p>-May be required to work outside normal working hours, including nights, weekends and public holidays;</p> <p>-Performs other duties in support of the project schedule;</p> <p>-May be requested to be part of any of the project team 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 Tokamak Assembly Section/Division Head;</p> <p>-Acts as an interface between metrology group, assembly and design integration;</p> <p>-In response to requests from the Director-General and/or Construction Department Head, or proactively, informs the DG/ Construction Department Head 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>
Measures of effectiveness	<p>-Communicates efficiently with other sections to provide effective metrology solutions;</p> <p>-Produces concise metrology reports easily understood by all interested parties;</p> <p>-Establishes efficient analyses processes within 3D metrology software;</p> <p>-Effectively manages data from suppliers around the world, this major challenge will involve data captured using different techniques, instruments and under variable environmental conditions, Metrology Engineer support will be provided from within IO as necessary.</p>
Project Construction Phase	
Level of study	At least Master's Degree or equivalent
Diploma	Mechanical Engineering or other relevant discipline
Level of experience	At least 8 years
Technical experience/knowledge	-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.

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	<div>-At least 8 years' experience in the application of metrology techniques on machined and fabricated components and assemblies; -Experience in engineering design with a good understanding on Geometrical Dimensioning and Tolerancing (GD&amp;T); -Proficient in the use of metrology software for dimensional inspection and analysis, specific experience with Spatial Analysis will be an asset; -Experienced in the use of metrology instruments such as laser trackers, scanners, measurement arms; -Experience in the application of reverse engineer techniques is desirable.</div> <div>-Basic Project Management experience is required.</div>
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 Computer Aided Design MS Office standard (Word, Excel, PowerPoint, Outlook)
Others	-Proficient in the use of the Microsoft office suite of software; -Familiar with the operation of CAD software, ideally Catia; -Expert user in at least one metrology software for the manipulation of discreet point and point cloud data, ideally Spatial Analyzer will be one of these; other examples are Polyworks, Geomagic, Verisurf.
Languages	English (Fluent)