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JOB DETAIL

Ref. IO1908 - 11/16/2017

Assembly Metrology Engineer - CST-077

Main job Metrology

Department CST / Construction Department

Division CST / Tokamak Assembly Division

Section CST/TAD/Assembly Support Section

Job Family Engineer - 2

**Application Deadline
(MM/DD/YYYY)** 12/31/2017

Grade P3

Direct employment Not required

Purpose To develop metrology strategies, solutions and resources loaded for the assembly.
To provide metrology and alignment expertise in support of ITER construction and the qualification of its: constituent components, assemblies and sub-systems.

-Reviews metrology procedures, dimensional inspection plans and Manufacturing inspection plans to ensure compliance with the ITER Dimensional Metrology Handbook;

Main duties / Responsibilities -Ensures the development and the elaboration of metrology strategies and solutions necessary to efficiently define, validate, execute and control the assembly of machine components and assemblies;
-Prepares and implements resources loaded plans for alignment and metrology activities and coordinates the resources assigned to support the work;
-Reviews incoming metrology data relating to key machine components to validate compliance with technical specifications;
-Assists in the coordination of the Alignment & Metrology Support Framework contracts;
-Carries out surveillance of construction activities to ensure consistent approaches to metrology tasks in collaboration with system designers;
-Prepares technical specifications for the procurement of metrology equipment and services through Task Orders within Framework Contracts;
-Interfaces closely with the Design Integration Team to ensure full traceability of data is maintained through the supply chain and construction activities;
-Provides assistance and guidance in the application of metrology techniques to Technical Departments within the project;
-Establishes and maintains data management and analysis protocols;
-Performs other duties in support of the project schedule as described in the Detailed Work Schedule and the Strategic Management Plan;
-May be requested to be part of any of the project team and perform other duties upon management request;
-Maintains a strong commitment to the implementation and perpetuation of the ITER Safety Program, quality policy, values and ethics.

Special notice: May be requested to work on beryllium-containing components. In this case, you will be required to follow the established ITER Beryllium Management Program for working safely with beryllium. Full training and support will be provided by the ITER Organization;

Measures of effectiveness -Reports to Assembly Support Section Leader;
-Acts as an interface between the Tokamak Assembly Division, Design Integration and other Technical Departments requiring alignment and metrology support;
-In response to requests from the Director-General and/or Construction Department (CST) Head, or proactively, informs the DG/CST 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.

-Establishes and implements effective metrology strategy within the defined resources loaded cost and schedule;
-Communicates efficiently with other sections to provide effective metrology solutions;
-Produces concise metrology reports easily understood by all interested parties and maintains an accurate data base;
-Establishes efficient analyses processes within 3D metrology software;

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-Maintains cost, quality and schedule requirements for tasks under their control.

Project Construction Phase

Level of study Master or equivalent degree

Diploma Engineering

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.

-At least 8 years' experience in the application of metrology techniques on machined and fabricated components and their precise alignment within a complex engineering / scientific large volume configuration;
-Experience in the design of survey networks and reference datum system for large volume metrology applications, their measurement to sub mm accuracy and the determination of the associated measurement uncertainty;
-Experience in engineering design with a good understanding on Geometrical Dimensioning and Tolerancing (GD&T);
-Demonstrated ability to develop innovative solutions to complex engineering problems

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)

General skills -Proficient in the use of metrology software for dimensional inspection and analysis, specific experience with Spatial Analyzer and Polyworks will be an asset;
-Experienced in the application of metrology instruments such as laser trackers, scanners, measurement arms, photogrammetry

-Ability to adjust communication content and style to deliver messages;
-Ability to persist in the face of challenges to meet deadlines with high standards;
-Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.

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 discrete point and point cloud data, ideally Spatial Analyzer will be one of these; other examples are Polyworks, Geomagic, Verisurf.

Languages English (Fluent)

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