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Ref. IO2097 - 4/11/2019

In-Field Structural Engineer PED-187

Main job Civil engineering**Department** PED / Plant Engineering Department**Division** PED / Field Engineering Installation Division**Job Family** Engineer - 1**Application Deadline (MM/DD/YYYY)** 05/05/2019**Grade** P2**Direct employment** Not required

Purpose To perform structural analysis for as built configuration for steel frames structures, piping interconnecting, supports capacity, anchorage of components, outline of equipment whilst developing technical solutions for construction activities. To resolve in field design changes during construction phase according to Safety and Quality Assurance (QA) rules.

To ensure that the interfaces between piping systems and civil structures are correctly defined and implemented both during the pre-construction and construction phases; To review and provide support for the issuance of the Engineering Work Packages (EWPs).

Please note that an organizational restructuring is planned in accordance with the needs of the organization and the evolution of the project phases. In this context, the unit of assignment of the present position may be updated in late 2019, early 2020.

Main duties / Responsibilities

Oversees on-site activities to ensure that construction activities are carried out in accordance with approved designs as per released EWPs and supervision plans; Reviews the analyses and associated calculation reports for structures and components which are subject to modification; Produces assessment reports and analyses to support and justify the proposed in-field design changes both before and during the planned construction works; Produces the resolution of in field required changes implementing the updated design comprehensive of technical calculations and as built configuration drawings of steel frames / supports/ anchorages/ piping routing; Resolves in-field design changes (Non-Conformance Reports (NCR), Deviation Requests, etc..) generated during construction activities and promotes their resolution in due time; Assesses the capacity of the embedded plates comprehensive of the edge effect; including post drilled plates, resulting from system final design or in-field design changes; Records documents related to their activities from design through to as-built records; May be required to work outside normal working hours, including nights, weekends and public holidays; May be requested to be part of any of the project/construction teams and to perform other duties in support of the project schedule.

Measures of effectiveness

Performs the calculation reports of the structures and components in a timely manner; Supports efficiently the design and installation activities; Provides in timely manner the resolution of the Request for Information, NCR and in-field changes; Contributes to cost saving and improvement of work efficiency and schedule by making suitable proposals when necessary; Supports the Engineering Department to issue the Engineering Work Packages; Manages effectively the various interfaces related to this scope of activities; Ensures full traceability of activities from design through to as-built records.

Level of study Master or equivalent degree**Diploma** Nuclear/Mechanical/Civil/Structural Engineering**Level of experience** At least 5 years

Technical experience/knowledge Good knowledge in designing structures, systems and components (including embedded plates); Excellent knowledge of structural design codes such AISC, Eurocode, ASCE, mechanical design codes such as ASME III related chapters and/or RCC and other international Codes & Standard for piping systems;

At least 5 years of experience in the field of Nuclear / Mechanical/Civil Engineering with a strong level of competence in both design and construction oversight within a nuclear environment;
Experience in the management of in-field design changes generated during installation activities and field installation supervision for plant systems;
Good experience in Quality Assurance/Quality Control procedures for the installation, of safety related mechanical components and piping systems;
Experience of design within the framework of the specific French Nuclear Safety regulations would be advantageous;
Good Project Management experience is preferred.

General skills Collaborate: Ability to dialogue with a wide variety of contributors and stakeholders;
Communicate Effectively: Ability to adjust communication content and style to deliver messages to work effectively in a multi-cultural environment;
Drive results: Ability to persist in the face of challenges to meet deadlines with high standards;
Manage Complexity: Ability to gather multiple and diverse sources of information to understand problems accurately before moving to proposals/solutions;
Instill trust: Ability to apply high standards of team mindset, trust, excellence, loyalty and integrity.

Others Standard Knowledge of GT Strudl, Staad Pro, ANSYS, SAP 2000 or similar software;
Good knowledge of Finite Element Method analysis and theory;
Good knowledge of 2D-3D CAD software (AVEVA PDMS and Catia) or similar software;
Experience of working with Microsoft Office suite.
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.

Languages English (Fluent)

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