

Structural Engineer

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Company: Egis

Location: United Kingdom

Category: architecture-and-engineering

General information

Organisation

Egis is an international player active in the consulting, construction engineering and mobility service sectors.

We design and operate intelligent infrastructure and buildings capable of responding to the climate emergency and helping to achieve more balanced, sustainable and resilient territorial development.

With operations in countries, Egis places the expertise of its 18, employees at the disposal of its clients and develops cutting-edge innovation accessible to all projects.

Improving people's quality of life and supporting communities in their social and economic development, whilst drastically reducing carbon emissions and achieving vital net zero targets, that's our purpose.

Reference

Position description

Job title

Structural Engineer

Contract type

Permanent contract

Business Line specific context

Egis is a leading global consulting, construction engineering and operating firm. We work

hand-in-hand with our clients, across every aspect of transport, energy and the built environment to build a more balanced, sustainable and resilient world. The Egis Group has more than 50 years of experience and a team of 18, employees in over countries around the world. Joining our Group means, above all, sharing our values as a people-first company, strongly committed to sustainability and innovation.

In the UK we're proud to be delivering some of the most iconic projects which help connect people, protect our environment and meet emission reduction targets. From motorways to tramways, nuclear power plants to smart cities, clients choose us to help them solve their most complex challenges - delivering climate-responsible growth that meets the needs of communities, industry and the planet.

As a result of our continued success and growth in the UK, were looking for full time Structural Engineers to join our team working on Nuclear New Build projects, specifically focusing on Nuclear Island buildings of Hinkley Point C, Sizewell C and similar projects. You will enjoy reinforcing your technical skills when working on the most complex buildings of a Nuclear Power Plant, cultivating strong working relationships on a multi-culture environment to deliver outstanding results for our clients.

Job description

As a Structural Engineer, you will play a critical role in ensuring the safety, integrity, and reliability of the nuclear power plant structures. You will be responsible for various aspects of the design and structural analysis of reinforced concrete or steel structures.

Key Responsibilities:

Design and analyse reinforced concrete structures for the Nuclear Island Buildings of EPR nuclear power plants,

Perform structural calculations and modelling using ANSYS APDL or similar advanced software and tools, ensuring compliance with applicable codes and standards such as Eurocode, ETC-C related to .

Ensure the structural integrity and resilience of the reinforced concrete structures under various loads, including seismic, dynamic, impact of temporary works related to the construction sequence and environmental factors.

Collaborate with detailing team including drafting team, BIM Coordinator and other designer engineers as well as the technical direction team to ensure coordination and integration of

design requirements.

Conduct calculations and structural assessments of design changes to determine the impact on the reinforced concrete structures and propose necessary design modifications.

Prepare detailed design drawings, specifications, and construction documentation for the reinforced concrete structures.

Conduct structural assessments, and evaluations during construction and provide technical support as needed.

Work closely with construction contractors and site teams to resolve any structural issues or challenges during the construction phase.

Provide technical guidance and support to junior engineers and draftsmen involved in the structural design and detailing process.

Collaborate with the client, construction team and the principal designer as well as regulatory bodies and authorities to ensure compliance with nuclear safety regulations and requirements.

Produce designs following CDM regulations.

Strong communication skills, independent working, presenting, and influencing skills.

Stay updated with industry advancements, new technologies, and best practices in nuclear structural engineering.

Note: This job description provides a general overview of the responsibilities and requirements for the role of a Structural Engineer working on the Nuclear Island Buildings' reinforced concrete structures for EPR nuclear power plants. The specific tasks and duties may vary based on project requirements and organizational needs.

Profile

With a background of working in the nuclear industry or another highly heavy industry sector, you'll have an established career in Civil Structural Engineering, with a MSc in Civil engineering or equivalent relevant subject. In addition, you'll also have:

Experience of Structural Civil Work, Civil Design, RC detailing, steels structures with ETT-C or Eurocodes or other relevant codes

Experience working on the design and analysis of reinforced concrete structures for nuclear power plants, specifically with European Pressurized Reactors (EPR)

Knowledge of nuclear safety principles, regulations, and standards governing the design and construction of nuclear power plant structures

Proficiency in using structural analysis software, such as ANSYS, SAP, or similar tools

Familiarity with Eurocode standards and EPR-specific design guidelines for nuclear structures

Strong understanding of seismic analysis and design principles for nuclear structures.

Excellent analytical and problem-solving skills

Effective communication and interpersonal skills to collaborate with multidisciplinary teams, contractors, and regulatory authorities

Ability to work independently and as part of a team, managing multiple tasks and meeting deadlines

Prior experience in the design and construction of reinforced concrete structures in a nuclear or high-risk industry

Knowledge of construction processes, materials, and quality control procedures related to nuclear structures

Professional licensure or chartered status in Structural Engineering is advantageous

Experience with on-site design support: working with contractors on site to deliver the implementation of engineering solutions

Strong commitment to safety, quality, and compliance in nuclear engineering projects

Experience of 3D BIM modelling such as TEKLA, Naviswork

Personal attributes you'll possess:

Pro-activity and autonomy

Team working spirit and willing to work in a diversified environment

Good and adaptive communication skills

Excellent report writing and logical thinking

Self-motivation and positivity

Due to the nature of the work role holders will be required to undergo a Basic Security clearance (BPSS).

We are an Equal Opportunities employer and we strive to build a workforce that truly reflects the communities we represent. We welcome candidates from all backgrounds, regardless of age, disability, gender, gender identity, gender expression, race, religion or belief, sexual orientation, socioeconomic background, and any other protected characteristic. If you decide to apply for an opportunity with us, your application will be assessed based purely on your experience, the essential and desirable criteria, and your suitability for the role. We value each and every ones contribution as this builds our culture and means that if you work with us, you will be included, listened to, and respected.

Position location

Job location

Europe, United Kingdom

City

Bristol

Candidate criteria

Minimum level of education required

4-Bachelor of Arts / Bachelor of Science

Minimum level of experience required

N/A

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