

HVAC System Engineer

Location:	Bristol
Salary:	Competitive
Hours:	40 hours per week
Contract:	PAYE Fixed Term Contract

The Ortec Group offers a high value-added engineering service. Founded on the expertise of engineers and technicians, combining knowledge of industrial sectors, field culture with more than 30 years' experience, Ortec Engineering is 40 agencies in France, a presence on four continents and two offshore production centres.

The role:

As part of the expansion of our Engineering and Projects activities, we are recruiting Engineers to support us in our growth in the Nuclear Energy sector. We are looking for Engineers who have experience in the nuclear sector, either within the generation fleet, EPR nuclear new build (Olkiluoto, Flamanville, Taishan or Hinkley Point C) or other relevant nuclear site (Sellafield, ITER...)

Key Tasks and Responsibilities:

Reporting to the Business Unit Manager, fulfil the role identified below

1. System design and system integration into overall HPC design:
 - a. Produce, review and update the system documentation for the mechanical and thermos-hydraulic design electrical, operator instructions, human machine interface, safety and environmental, control logic design as well as periodic testing in compliance with the engineering rules, methodologies, quality processes and tools.
 - b. Particularly for instrumentation and control, performing the analysis for defining the I&C functional requirements of the system and production of the I&C logic:
 - i. Writing of the Instrumentation & Control Functional Requirements
 - ii. Writing of Detailed Functional Diagram (DFD)
 - iii. Writing of FTP (Functional Test Platform procedure) specifications
 - iv. Analysis of the FTP results
 - v. Writing of P5 text (I&C logic description)
 - vi. Writing of P6.x (alarm sheets, operating images and operating modes)
 - c. Particularly for mechanical design
 - i. Sizing of components e.g pumps, fans, pipework, pressure relief valves, tanks
 - ii. Perform thermal-hydraulic calculation and modelling with in house or commercial tools
 - iii. Ensuring the 3D model is consistent with the intended system design
 - iv. Formulate equipment specification and provide the data in respective database or datasheet
 - v. Support to procurement team in formulation of technical specification for contract documentation
 - vi. Support to procurement team in technical surveillance of supplier documentation
 - d. Analysis and verification of input data, requirements and lesson learnt from other stations

- e. Engage proactively with all stakeholders around the system to ensure the delivery of a product meeting the requirements set by all disciplines (layout, civil, hazard, nuclear safety, environment, configuration management, procurement...)
 - f. Contribute to topics around good practices, innovation, improvement of processes, and quality
 - g. Participate in experience sharing activities within the discipline
2. Management of modifications related to the system including:
 - a. Managing requests for modification to system(s) issued by various external parties by producing specifications and following engineering cycle (I&C and/or mechanical design changes specifications)
 - b. Analysis and verification of the applicability of these modification and challenging them as appropriate
 - c. Developing technical solution and presenting them to the client to help resolve technical issues (technico-economic optimisations approach)
 - d. Utilising the electronic Engineering change Management tool
3. System coordination support for relevant building
 - a. Producing and updating component datasheets for handovers with detailed design
 - b. Producing and updating P&IDs with all relevant design changes for handovers with detailed designers
 - c. Liaising with other stakeholders through participation at kick off meeting, gate reviews etc relevant to the system

The right candidate will have the following skills and background:

Essential:

- Engineering degree or equivalent qualification
- Minimum 6+ years' experience in nuclear industry
- Knowledge of instrumentation and control design
- Experience of producing design documentation and test specifications
- Knowledge of nuclear system design, thermal-hydraulic calculation and modelling
- Working knowledge of HVAC, fluid mechanics, heat transfer and thermodynamics
- Knowledge of PWR or AGR power station design and system
- Eligible to live and work in the UK

Screening:

- Do you have minimum 6 years' experience working in Nuclear?
- Do you have working knowledge of HVAC?
- Do you have an Engineering degree or equivalent qualification?
- Do you have knowledge of PWR or AGR power station design and system?
- Are you eligible to live and work in the UK, with a valid Passport?

If you are interested in joining our team, send your CV to:



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