

ENC
2012

EUROPEAN NUCLEAR CONFERENCE



ENC 2012 CAREER EVENT

LIST OF JOB PROFILES



Dear candidate,

The European Nuclear Conference (ENC) 2012 will be one of the biggest events on the international nuclear industries' calendar. It will take place from 9 – 12 December in Manchester, UK.

ENC 2012 is expected to attract more than 800 nuclear professionals and will feature an extensive parallel Industry Exhibition that covers over 2000 m². A unique networking opportunity for professionals in the nuclear sector!

Furthermore, at the **ENC 2012 Career Event** cutting-edge nuclear companies seeking to invest in talented individuals will be recruiting.

Our Partner Companies will interview candidates for a number of jobs in areas as diverse as Safety and Process Engineers, Procurement Managers and Marketing Operations Executive. The attached list of job opportunities give an overview on what type of talents our Partner Companies are looking for. If you are interested in one of these opportunities, simply send your CV (preferably in the EuroPass format) together with a cover letter and the ENC 2012-Profile-Sheet (available for download on www.enc-2012.org) to careers@euronuclear.org.

Selected candidates will be invited to a face-to-face interview with a Human Resources Manager. Here is a real prospect of giving fresh impetus and direction to your career!

Some practical details

- The ENC 2012 Career Event will take place on Sunday 9th December at the Manchester Town Hall;
- It will start with an Information Session where all participating companies will present themselves, followed by a walking-lunch;
- Interviews will be scheduled for Sunday afternoon at Manchester Town Hall and might continue on Monday 10th December at the ENC 2012 Conference and Exhibition Venue, Manchester Central Convention Complex;
- The ENC 2012 Career Event Secretariat will, with the support of interviewing companies, organise an overnight stay for all candidates invited to interviews;
- All candidates will be invited to the ENC 2012 Welcome Reception on Sunday 9th December at the Manchester Town Hall; they will also have the possibility to visit the ENC 2012 Industry Exhibition which will take place from Monday 10th December to Wednesday 12th December at the Manchester Central Convention Complex

More information on ENC 2012, the ENC 2012 Career Event and the application procedure is available at www.enc-2012.org

Don't hesitate to contact me for further information.

With my best regards,



Kirsten Epskamp
ENS Society Manager



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WELDING ENGINEER

The Nivelles Service Center (NSC) in Belgium provides engineering and field services to the nuclear power utilities in Europe and worldwide. The Nivelles entity incorporates Westinghouse's European Service Center, a fully-licensed Class 2 nuclear facility supporting our field service efforts at European operating reactors. Westinghouse Electric Belgium employs a multinational workforce of more than 200 people.

Technical/Academic Qualifications and Experience Required

- MS degree in Mechanical or Aeronautical engineering.
- IWE (International Welding Engineer) degree.
- Min. 5 years' experience in design and analysis of mechanical components and codified (pressure retaining) equipment.
- Experience in FEA for structural analysis of structures and/or pressure retaining equipment.
- Experience in fatigue and/or fracture mechanics analysis and testing.
- Technical knowledge of commonly used fabrication and non-destructive examination techniques for metallic components.
- Excellent knowledge of English and French with proven reporting skills in both languages.

Job Specifications and Duties

- Perform complex engineering design, evaluations and analyses of technical products and services within the structural mechanics field.
- Organize and supervise internal Westinghouse and subcontracted welding qualifications and production welding activities mainly in support to the Nivelles P&M workshop.
- Propose solutions to technical challenges that may arise during projects and tasks.
- Participate to or manage integrated project teams and communicate to all involved parties.

Other Requirements

- Customer contact: Important
- Management Capabilities: Preferred
- English, French: Spoken, Written, Read

SENIOR FIELD SERVICE ENGINEER

The Nivelles Service Center (NSC) in Belgium provides engineering and field services to the nuclear power utilities in Europe and worldwide. The Nivelles entity incorporates Westinghouse's European Service Center, a fully-licensed Class 2 nuclear facility supporting our field service efforts at European operating reactors. Westinghouse Electric Belgium employs a multinational workforce of more than 200 people.

Technical/Academic Qualifications and Experience Required

- Bachelor Degree in Mechanical Engineering, Advanced Degree Preferred
- Experience in a similar position is preferred (Typically 4 to 7+ years)
- Familiarity with nuclear industry requirements and the ASME and RCCM Code as it relates to the nuclear industry is desirable.
- Familiarity with power plant operations is desirable.
- Required technical expertise in mechanical engineering.
- Expertise in pump and motor components and systems.
- Vibration training and/or experience preferred.
- Team player, excellent communication skills.
- Fluent in English and French (written, spoken, read).

Job Specifications and Duties

Major Focus of the position: Provide technical control and advisory services on components specifically related to Pumps and Motors in the commercial nuclear industry:

- Develop detailed procedures (may be operations, training, maintenance, qualification test, or inspection) for work on equipment and systems used in commercial nuclear power plants.
- Supervise field service crews comprised of engineers, technicians, and labor support at domestic and international nuclear power plant sites.
- Diagnose operational issues with Pumps and Motors (vibration, seals, and electrical tests).
- Prepare detailed reports for management and design engineering regarding equipment/systems defects or design deficiencies affecting installation and operations/performance.

Other Requirements

- Customer contact: Important
- Management Capabilities: Preferred but not required
- Travel requirement: 40 %

SENIOR ENGINEER



The Nivelles Service Center (NSC) in Belgium provides engineering and field services to the nuclear power utilities in Europe and worldwide. The Nivelles entity incorporates Westinghouse's European Service Center, a fully-licensed Class 2 nuclear facility supporting our field service efforts at European operating reactors. Westinghouse Electric Belgium employs a multinational workforce of more than 200 people.

Technical/Academic Qualifications and Experience Required

- MS degree in Mechanical or Aeronautical engineering
- Solid background in stress analysis of mechanical components, piping systems and codified (pressure retaining) equipment
- Experience in FEA software for analysis of structures
- Experience in fatigue analysis
- Fluent in English with proven reporting skills

Job Specifications and Duties

- Perform moderately complex engineering evaluations and analyses of technical products and services within the structural mechanics field
- Ensure that supporting evaluations and analyses are documented.
- Propose solutions to technical challenges that may arise during projects and tasks
- Participate to integrated project teams and communicate to all involved parties

Other Requirements

- Customer contact: Important
- Management Capabilities: Not essential
- English, French: Spoken, Written, Read

SAFETY AND PROCESS ENGINEERS



Tasks/Responsibilities

You will be joining a team of design, project or site engineers and will contribute to the major technological developments of EDF in the field of the development of nuclear generating resources. In particular, you are responsible for technical studies and files concerning the operation of the assemblies and sub-assemblies of a nuclear power plant. Accordingly, you shall be required:

- to carry out feasibility studies and provide the decision makers with information for technical and economic assessments and planning during the preliminary phase of the project
- to provide technical support or advice on
 - the application of the safety benchmark
 - the drafting of design memoranda
 - the drafting of incident/accident operating rules
- Guarantee the overall consistency of files.

You shall be required to travel from time to time, depending on the nature of the activities entrusted in you.

Technical/Academic Qualifications and Experience Required

- University Degree in a relevant discipline (MEng, MSc, PhD, Engineering school or University);
- A minimum Degree Grade of 2:1;
- Degree Subjects:
 - Civil/Structural Engineering
 - Chemical/Process Engineering
 - Mechanical Engineering
 - Electrical Engineering
 - Environmental Engineering
 - Physics
- A nuclear specialism would be a plus;
- Discipline, a capacity for analysis, a critical mind and a practical sense approach;
- Good written and oral communication skills and a high level of proactivity and flexibility;
- Organizational and team working skills to ensure your success in a stimulating human and technological environment;
- International mobility

Language Requirements

Fluency in English; basic/good French knowledge and strong willingness to improve;

Location

Initially in France (Paris, Lyon, Marseille, Tours), for a minimum of 3-5 years; after that period: France or other countries or relocate back to the UK to work on EDF Energy nuclear projects.

MECHANICAL ENGINEERS

Tasks/Responsibilities

You shall be defining the organisation of mechanical equipment in space, the bottom line of your job being to provide the operator with a facility that works and meets his economic requirements, that is easy to operate and within the time-frames.

Such installations must also comply with the safety rules, particularly in terms of radiological protection and external aggression, which implies studies and calculations by way of justification (studies concerning fire, earthquake, flooding, exceptional weather conditions, etc.)

You shall be responsible for technical specifications for the purchase of mechanical equipment, take part in the selection of suppliers and monitor the execution of contracts and the quality of services provided. Accordingly, you shall be required:

- To propose strategies for handling projects,
- Capitalize on engineering knowledge and know-how by formalizing return of experience,
- Develop multi-disciplinary skills within the framework of your technical support and advisory activities.

Technical/Academic Qualifications and Experience Required

- University Degree in a relevant discipline (MEng, MSc, PhD, Engineering school or University);
- A minimum Degree Grade of 2:1;
- A nuclear specialism would be a plus;
- Discipline, a capacity for analysis, a critical mind and a practical sense approach;
- Good written and oral communication skills and a high level of proactivity and flexibility;
- Organizational and team working skills to ensure your success in a stimulating human and technological environment;
- International mobility

Language Requirements

Fluency in English; basic/good French knowledge and strong willingness to improve;

Location

Initially in France (Paris, Lyon, Marseille, Tours), for a minimum of 3-5 years; after that period: France or other countries or relocate back to the UK to work on EDF Energy nuclear projects.

CIVIL ENGINEERS

Tasks/Responsibilities

As part of a team of design or project engineers, you shall contribute to major technical developments of the EDF Group in the field of the development of nuclear generating facilities.

For all design, construction, modification and decommissioning projects concerning a generating facility, you shall be required to assume responsibility for a wide range of complex activities, in your specialized field of civil engineering:

- Drafting of design memoranda and study reports,
- Producing design documents,
- Proposing strategies for handling projects,
- Drafting the technical parts of service contracts and the analysis of tenders,
- Technical management of contracts up to the commissioning of installations,
- Capitalizing on engineering knowledge and know-how by formalising return of experience.

As part of your activities, you shall be working in close collaboration with all professions that make contributions to projects: the engineers and technicians of generating sites, buyers, manufacturers, engineers of the Research and Development Division and Design Office, etc.

You shall be required to travel from time to time, according to the nature of the activities entrusted in you.

Technical/Academic Qualifications and Experience Required

- University Degree in a relevant discipline (MEng, MSc, PhD, Engineering school or University);
- A minimum Degree Grade of 2:1;
- A nuclear specialism would be a plus;
- Discipline, a capacity for analysis, a critical mind and a practical sense approach;
- Good written and oral communication skills and a high level of proactivity and flexibility;
- Organizational and team working skills to ensure your success in a stimulating human and technological environment;
- International mobility

Language Requirements

Fluency in English; basic/good French knowledge and strong willingness to improve;

Location

Initially in France (Paris, Lyon, Marseille, Tours), for a minimum of 3-5 years; after that period: France or other countries or relocate back to the UK to work on EDF Energy nuclear projects.

ELECTRICAL ENGINEERS

Tasks/Responsibilities

This role will give you the opportunity to complete a variety of studies (organisation in space, modifications etc.) related to electrical equipment. The objective of your job will be to provide the end user with equipment that works well according to the specified requirements at an efficient cost and within the agreed deadlines. This equipment has to be in accordance with safety regulations, especially in terms of radiation protection and external hazards. It will be your responsibility to perform the related supporting studies and calculations (fire, seismic, flood, extreme climatic conditions...).

You will be responsible for the technical specification for the procurement of electrical equipment. You will participate in selecting suppliers and monitor the progress of contracts and the quality of services provided.

As such, you will:

- Suggest job processing strategies
- Capitalise on knowledge and expertise of engineering by formalising feedback
- Develop multidisciplinary skills as part of your support, technical and advisory activities.

You might participate in or be responsible to manage R&D projects.

Technical/Academic Qualifications and Experience Required

- University Degree in a relevant discipline (MEng, MSc, PhD, Engineering school or University);
- A minimum Degree Grade of 2:1;
- A nuclear specialism would be a plus;
- Discipline, a capacity for analysis, a critical mind and a practical sense approach;
- Good written and oral communication skills and a high level of proactivity and flexibility;
- Organizational and team working skills to ensure your success in a stimulating human and technological environment;
- International mobility

Language Requirements

Fluency in English; basic/good French knowledge and strong willingness to improve;

Location

Initially in France (Paris, Lyon, Marseille, Tours), for a minimum of 3-5 years; after that period: France or other countries or relocate back to the UK to work on EDF Energy nuclear projects.

ENVIRONMENTAL ENGINEERS



Tasks/Responsibilities

You will be part of the Environmental Impact Group, conducting environmental impact assessment studies of radiological, chemical and thermal releases of nuclear power plants.

You will be involved in:

- Drafting and finalising technical notes regarding the environmental impact assessment of thermal liquid discharge from nuclear power plants under construction or in operation, with the use of calculation models developed by EDF Research & Development
- Drafting and finalising technical notes regarding the environmental impact assessment of nuclear power plant discharge, particularly hydro-ecological aspects, in the framework of supplying regulatory documents for nuclear sites.

Technical/Academic Qualifications and Experience Required

- University Degree in a relevant discipline (MEng, MSc, PhD, Engineering school or University);
- A minimum Degree Grade of 2:1;
- A nuclear specialism would be a plus;
- Discipline, a capacity for analysis, a critical mind and a practical sense approach;
- Good written and oral communication skills and a high level of proactivity and flexibility;
- Organizational and team working skills to ensure your success in a stimulating human and technological environment;
- International mobility

Language Requirements

Fluency in English; basic/good French knowledge and strong willingness to improve;

Location

Initially in France (Paris, Lyon, Marseille, Tours), for a minimum of 3-5 years; after that period: France or other countries or relocate back to the UK to work on EDF Energy nuclear projects.

REACTOR PHYSICISTS – Thermo-nuclear studies, nuclear fuel (Lyon)

Tasks/Responsibilities

Working in the field of fuel assembly (rod and structure) of the nuclear power reactors, you will use programs based on physics laws and on experiences in order to simulate the mechanical behaviour of the fuel rod and of the fuel assembly.

You will be involved in:

- Developing new methods of study (from feedback or comparative studies) to integrate the strategic dimension of nuclear fuel ensuring consistency with the rest of the unit and help to streamline the goals of stakeholders in order to present new methodologies to the safety authorities with consistent objectives in terms of costs and deadlines.
- Conducting and monitoring studies established by suppliers. You will analyse documents, verify standard requirements, establish and maintain an up to date monitoring file, utilise calculation tools developed through fuel-rod thermo-mechanics' research and development studies to support fuel-rod design justifications.
- Making presentations (formal and informal) at national or international conferences where you will discuss EDF technical positions relating to your field of expertise. Considering the complexity of physical phenomena studied in the field of fuel, you will be asked to look for the information which you will need to work in teams and to share your work with colleagues.

Technical/Academic Qualifications and Experience Required

- University Degree in a relevant discipline (MEng, MSc, PhD, Engineering school or University);
- A minimum Degree Grade of 2:1;
- A nuclear specialism would be a plus;
- Discipline, a capacity for analysis, a critical mind and a practical sense approach;
- Good written and oral communication skills and a high level of proactivity and flexibility;
- Organizational and team working skills to ensure your success in a stimulating human and technological environment;
- International mobility

Language Requirements

Fluency in English; basic/good French knowledge and strong willingness to improve;

Location

Initially in France (Paris, Lyon, Marseille, Tours), for a minimum of 3-5 years; after that period: France or other countries or relocate back to the UK to work on EDF Energy nuclear projects.

OPERATING ENGINEERS

Tasks/Responsibilities

- Operating the plant
- Supervision of operation activities in a 20 workers team
- Checking different parameters to operate the plant in good nuclear safety conditions (temperature, pressure...)
- Responsible for the objectives of production

Technical/Academic Qualifications and Experience Required

- University Degree in a relevant discipline (MEng, MSc, PhD, Engineering school or University);
- A nuclear specialism would be a plus;
- Discipline, a capacity for analysis, a critical mind and a practical sense approach;
- Good written and oral communication skills and a high level of proactivity and flexibility;
- Organizational and team working skills to ensure your success in a stimulating human and technological environment;
- International mobility

Language Requirements

Fluency in English; basic/good French knowledge and strong willingness to improve;

Location

Initially in France (on one of our nuclear power plants), for a minimum of 3-5 years

OPERATING ENGINEERS – A nuclear safety engineer



Tasks/Responsibilities

- Checking all safety parameters of the plant
- Analyzing events and their consequences on the nuclear safety level of the plant
- In contact with operation engineer to analyze the nuclear safety level of the plant
- Advices operation and maintenance departments

Technical/Academic Qualifications and Experience Required

- University Degree in a relevant discipline (MEng, MSc, PhD, Engineering school or University);
- A nuclear specialism would be a plus;
- Discipline, a capacity for analysis, a critical mind and a practical sense approach;
- Good written and oral communication skills and a high level of proactivity and flexibility;
- Organizational and team working skills to ensure your success in a stimulating human and technological environment;
- International mobility

Language Requirements

Fluency in English; basic/good French knowledge and strong willingness to improve;

Location

Initially in France (on one of our nuclear power plants), for a minimum of 3-5 years

OPERATING ENGINEERS –

A project engineer

Tasks/Responsibilities

- In charge of managing a part of the outage project or the operation project of the plant
- Managing a team project to rise the objectives and to give the priorities
- In link with operation engineers, safety engineers, maintenance engineers
-

Technical/Academic Qualifications and Experience Required

- University Degree in a relevant discipline (MEng, MSc, PhD, Engineering school or University);
- A nuclear specialism would be a plus;
- Discipline, a capacity for analysis, a critical mind and a practical sense approach;
- Good written and oral communication skills and a high level of proactivity and flexibility;
- Organizational and team working skills to ensure your success in a stimulating human and technological environment;
- International mobility

Language Requirements

Fluency in English; basic/good French knowledge and strong willingness to improve;

Location

Initially in France (on one of our nuclear power plants), for a minimum of 3-5 years

OPERATING ENGINEERS – A maintenance engineer



Tasks/Responsibilities

- Analyses maintenance events
- Advices operation department and operation engineer to help them to decide for the right maintenance actions
- Working on maintenance programs and optimizes these programs
- Different fields of maintenance: mechanical, electrical, instrumentation and control.

Technical/Academic Qualifications and Experience Required

- University Degree in a relevant discipline (MEng, MSc, PhD, Engineering school or University);
- A nuclear specialism would be a plus;
- Discipline, a capacity for analysis, a critical mind and a practical sense approach;
- Good written and oral communication skills and a high level of proactivity and flexibility;
- Organizational and team working skills to ensure your success in a stimulating human and technological environment;
- International mobility

Language Requirements

Fluency in English; basic/good French knowledge and strong willingness to improve;

Location

Initially in France (on one of our nuclear power plants), for a minimum of 3-5 years

OPERATING ENGINEERS – A training engineer



Tasks/Responsibilities

- In charge of training workers of nuclear plants and engineering centers
- Developing training programs for workers in maintenance, operation
- Training on the nuclear plants simulators and in training rooms.

Technical/Academic Qualifications and Experience Required

- University Degree in a relevant discipline (MEng, MSc, PhD, Engineering school or University);
- A nuclear specialism would be a plus;
- Discipline, a capacity for analysis, a critical mind and a practical sense approach;
- Good written and oral communication skills and a high level of proactivity and flexibility;
- Organizational and team working skills to ensure your success in a stimulating human and technological environment;
- International mobility

Language Requirements

Fluency in English; basic/good French knowledge and strong willingness to improve;

Location

Initially in France (on one of our nuclear power plants), for a minimum of 3-5 years

OPERATING ENGINEERS – A fuel engineer

Tasks/Responsibilities

- In charge of analyzing the neutronic tests of the core
- Analyzing fuel events like defaults on the fuel
- Advices operation engineer to operate the plant

Technical/Academic Qualifications and Experience Required

- University Degree in a relevant discipline (MEng, MSc, PhD, Engineering school or University);
- A nuclear specialism would be a plus;
- Discipline, a capacity for analysis, a critical mind and a practical sense approach;
- Good written and oral communication skills and a high level of proactivity and flexibility;
- Organizational and team working skills to ensure your success in a stimulating human and technological environment;
- International mobility

Language Requirements

Fluency in English; basic/good French knowledge and strong willingness to improve;

Location

Initially in France (on one of our nuclear power plants), for a minimum of 3-5 years

MAINTENANCE MANAGER



Tasks/Responsibilities

- Development and implementation of Asset Management and Quality strategies, focusing on best practice in the global industry and embedding continuous improvement in those processes.
- Devise business plans and budgets for the maintenance related elements including the identification, selection and budgeting for all spare parts.
- Responsible for the Long Term Service Agreement with respect to maintenance and spare parts planning aspects of gas turbine, distributed control system and steam turbine generator.
- Responsible for the on-site stores and procurement processes. Create and maintain high performance standards by applying performance management and development processes.

Language Requirements

English

Location

UK

SHIFT OPERATIONS TECHNICIAN



Tasks/Responsibilities

- The operation, monitoring and, where appropriate, maintenance of the plant/apparatus as directed and in accordance with site operating procedures. Recording and communicating operational data and information as required.
- Investigate, diagnose and act to solve the causes of recurring problems, informing others where necessary.
- Ensure production targets are achieved safely, economically and within the environmental limits of the station.
- Ability to investigate, diagnose and report the causes of plant related problems or issues, informing others and where appropriate suggesting solutions.
- Site specific knowledge and understanding of operational procedures, such as pre-start, start-up, running and shutdown procedures and operating instructions.
- RTITB certification in the operation of mobile plant such as FLT, MEWP, reach truck and pallet truck, as well as rigging and slinging skills.

Language Requirements

English

Location

UK

OPERATIONS ENGINEERS



Tasks/Responsibilities

- Monitoring and control of all station plant from the station's central control room (CCR).
- Performing a plant engineer function and providing immediate operational advice to CCR staff and Operations Technicians during normal operation, fault investigations and recovery.
- Carrying out project work on a day working pattern when requested.

Language Requirements

English

Location

UK

SENIOR DESIGN ENGINEER



Tasks/Responsibilities

- The senior design engineer is accountable to the design engineering group head for providing authoritative advice on the application of the modification (EC) process on site.
- Maintaining the station's local procedures and standards associated with modifications and design changes, and driving continuous improvement in those standards.
- Providing specialist advice on the development of safety cases and management of major modifications. Leading and guiding the development of more complex safety cases.
- Leading major work programs for the station.

Language Requirements

English

Location

UK

SAFETY CASE ENGINEER



Tasks/Responsibilities

- To enact the role of intelligent customer for the safety case, especially those elements associated with transverse elements, such as PSA and hazards that cover multiple systems.
- To support development of processes for management of the safety case and its configuration control.
- Ensure that the safety case is not compromised by ensuring the team is engaged in the design, procurement, construction and operational processes.

Language Requirements

English

Location

UK

DELIVERY MANAGERS/ SENIOR PROJECT MANAGERS



Tasks/Responsibilities

- Manage the work scope to be delivered within the programme of work and the interfaces to the other programmes.
- Establish and lead a team to deliver the work scope, with clear roles and responsibilities and delivery accountabilities.
- Drive the delivery of the programme activities to ensure they are delivered safely, on time, to budget, meeting business & technical requirements. Monitor and manage the progress of the programme - track progress against milestones, deadlines, budget and provide key stakeholders with reports on these matters.

Language Requirements

English

Location

UK

PROCUREMENT MANAGERS



Tasks/Responsibilities

- Provide assurance and management such that services, equipment, materials and construction are safely executed to the required quality.
- Provide assurance that services, equipment, materials and construction are procured on time and within the project budget.
- Ensure that operational requirements are adequately considered in the procurement of equipment and materials.
- Work with stakeholders (e.g. engineering, legal, finance, industrial safety etc.) to develop individual strategies and invitations to tender for the identified contracts.

Language Requirements

English

Location

UK

QUALITY ASSURANCE LEAD/MANAGERS



Tasks/Responsibilities

- The Quality Assurance lead will be responsible for site quality assurance activities.
- Site Quality Assurance lead will support Assurance Department which is responsible for defining the policy and standards and will act as the interface with Independent Assurance Challenge and Oversight (IACO) function.
- Support and challenge site activities, providing advice and leading investigations, and act as lead technical expert on assurance.
- Previous experience in the application of ISO9001, ISO 14001 standards in an engineering or industrial context.

Language Requirements

English

Location

UK

MARKET RISK REPORTING ANALYST



Tasks/Responsibilities

- The role holder is responsible for ensuring daily and monthly reporting is delivered in an accurate and timely manner.
- The Analyst is responsible for identifying and making suggestions through the appropriate routes to improve reporting and operational risks associated with the trading lifecycle.
- The role holder is expected to have extensive daily interaction with commercial teams in EDF Energy and, on a monthly basis, with risk controllers in EDF Group.

Language Requirements

English

Location

UK

MARKETING OPERATIONS EXECUTIVE



Tasks/Responsibilities

- Works closely with multiple stakeholders to ensure timely and cost effective roll out of our operational communications.
- Manages the performance of all print suppliers ensuring they meet all time, quality, cost and sustainable criteria on every job.
- Creating and communicating regular status updates on all ongoing campaigns - Creating regular status reports against budgets.

Language Requirements

English

Location

UK

PORTFOLIO AND INNOVATION SPECIALIST



Tasks/Responsibilities

- Responsible for both the creation and execution of a Secondary Web Portfolio Management and Web Innovation capability at EDF Energy.
- Become the voice of Digital in the Product and Proposition Innovation process to ensure Digital is at the core of all new Products and Propositions.
- Manage & build strong relationships with all Digital Agencies so that the business gains best possible value and quality from its Digital partners.

Language Requirements

English

Location

UK

SAFETY ENGINEERING, PROCESS ENGINEERING, MECHANICAL ENGINEERING, CE&I ENGINEERING, CIVIL ENGINEERING, STRUCTURAL ENGINEERING, HUMAN FACTORS



Global energy markets and requirements are constantly evolving, and here at Atkins we plan, design and enable major projects across the Nuclear Energy sector. Atkins Nuclear is focused at providing our clients with multi-skilled support to successfully discharge their nuclear new build, decommissioning, waste management and ongoing operational responsibilities.

We have opportunities for the below disciplines to join our teams based at our various offices located across the UK. In your new role you will help support our exciting and expanding workload in one of our three core businesses; Generation, New Build and Decommissioning.

Nuclear Safety Engineering

Process Engineering

Mechanical Engineering

CE&I Engineering

Civil Engineering

Structural Engineering

Human Factors

Environmental and Radioactive Waste Management

Atkins' Decommissioning business is focused on supporting our clients with the challenges associated with nuclear decommissioning, waste management and environmental remediation responsibilities. We are currently involved in a project to transfer intermediate level waste products into long term containment vessels for Magnox.

Our Generation business is part of a key strategic alliance with EDF Energy, providing technical and project management support to maintain the generation of power across their ageing fleet. Atkins specialises in taking on the most challenging engineering projects and with the recent Earthquake in Japan, we have a pivotal role in EDF Energy's Japanese Emergency Response programme, helping to ensure that the existing fleet of reactors are more resilient to extreme events.

Our New Build business is currently focussed on providing support to developers, operators, vendors and regulators to help deliver the next generation of nuclear power stations. We are currently providing technical support to the International Thermonuclear Experimental Reactor (ITER); a fusion reactor which aims to demonstrate the commercial viability of delivering clean energy for the future.

The provision of nuclear safety submissions and advice to our clients covers the full range of the project lifecycle, from conceptual design stage through to implementation and final commissioning. As well as UK opportunities we also have opportunities providing our clients with nuclear safety advice within overseas markets. The scope of our nuclear safety involvement covers a broad range of tasks ranging from initial hazard identification through to the deterministic and probabilistic assessment of hazards leading to the provision of safety submissions to underpin the design and operation of nuclear installations/plant

Responsibilities

Working for Atkins Nuclear, you will be involved in solving real problems from day one, with exposure to some of the most demanding projects in the UK and internationally.

We encourage vision, problem-solving, ambition, enthusiasm and drive. We recognise that people are the key to our success and our graduates are the future of our business. We therefore ensure that we provide our graduates with a varied workload and encourage them to extend themselves in order to reach their potential.

Atkins Nuclear work on a wide range of projects based across our UK office locations. As part of the business you will work on a range of problems similar to the following examples:

- Feasibility study identifying and developing proposed options to mitigate the risk of reactor internal flooding.
- Developing modifications and evidence-based assessments supporting the Safety Case to allow reactors to return to power.
- Assessment of an existing Nitrogen plant compliance with a revised diverse hold-down process.
- Development of concept design for retrieval of radioactive wastes from storage tanks.
- Design of new facility to clean up removed contaminated concrete from cooling ponds on a decommissioned station.
- Development of scopes of work, designs and specifications for the retrieval, processing and conditioning of active wastes.
- Development of a modular effluent collection and monitoring plant on a nuclear site.
- Developing technical solutions and a design to retrieve and dissolve magnesium/aluminium alloys using nitric acid.
- Assessment of existing and alternative sites for New Nuclear Build and to provision of regulatory and licensing support.
- Investigating how a Nuclear New Build organisation would comply with Licence Conditions.
- Understanding the specific and unique requirements for nuclear safety related buildings and structures, and providing robust design and engineering substantiation.
- Designing new buildings and structures.
- Analysing and assessing existing buildings and structures using current design codes and techniques whilst under extreme loading e.g. earthquakes, wind, tornadoes, snow, blast, impact.
- Assessing existing buildings and structures for new loading conditions or with significant modifications and then designing modifications and strengthening measures where required.
- Checking the effects of ageing and degradation on long term structural performance.

- On site experience including surveys, structural and plant condition inspections.
- Providing safety cases and safety case advice for defence projects, UK and overseas new reactor generation build projects and UK decommissioning projects

Requirements

We are looking for individuals that have the ability to think laterally and possess a sound understanding of engineering principles. Ideal candidates will be able to demonstrate strong interpersonal skills and have the ability to build and develop relationships, both internally and externally.

Successful candidates will be required to undergo a security vetting process and offers of employment will be subject to relevant security clearance being granted

The Individual

Strong candidates will have:

- The ability to lead and to work as part of a team
- The drive and self-motivation to achieve Chartered status and to continuously develop your technical & behavioral skills
- The ability to apply technical knowledge in analyzing problems and creating solutions
- The aptitude to work on your own initiative
- A questioning/challenging approach
- Excellent verbal and written communication skills
- Strong attention to detail and ability to make correct judgments
- The ability to work and communicate effectively within multidisciplinary teams
- A commercial and client focused approach
- Flexibility with respect to travel and working location within the UK and even Internationally

CONTRACT MANAGER

Tasks/responsibilities

Goal of the contract management department is to:

Ensure all expertise and support to the Project Director and Project Managers in handling contractual issues and their interpretation, suggesting actions and countermeasures, after the signature of the contracts.

Assessing each aspect in cooperation with Control, Legal, Financial and Procurement departments.

Responsibilities:

- Cooperate for contract issue or for finalization of their amendments based on identification and assessment of the Project needs.
- Evaluate draft contracts sent by contractors and contractual partners.
- Support the Project team with regard to solving contract implementation.
- Provide support to Project Managers in the process of applying contractual penalties.
- Co-ordinate among internal departments (Controlling, Planning and Reporting, AFC, Procurement, Legal, etc.) the process of resolving contracts issues.

Education

University education (preferred specializations law or science faculties)

Professional requirements

- Knowledge of legislation in the power industry field.
- Experience/participation in execution of projects in the power industry field in international companies.
- Participation in elaboration, conclusion and implementation of commercial contracts in execution of projects in a multicultural environment.
- Management of contractual and partner relationship with contractors in international companies.

Personal abilities

- Fluent written and spoken English
- Communication skills
- Creativity
- Target oriented
- Experience with Project management
- Team Player

Location

Slovakia

HEAD OF PROJECT DESIGN INSTRUMENTATION

Tasks/responsibilities

The Plant Design Instrumentation assures in line with technological processes and equipment, the verification of design activities aimed to assure the compliance between process aspect and layout solutions. Together with Project Engineering it is responsible to provide technical standpoint when reviewing Contractor's documentation related to this area specifically focused on instrumentation and control.

Responsibilities:

- Coordinate a team for Nuclear Power Plant (NPP) field instrumentation design
- Coordinate activities between information & control unit (I&C), contractor and mechanical contractor
- Coordinate activities between field instrumentation and control system
- Identify technological data from mechanical contractor required to select the correct field instrumentation
- Define the interfaces between field instrumentation and process systems
- Interface management between field instrumentation and distributed control system
Evaluation of documents provided by I&C suppliers
- Space management using 3D model for impulse pipes and plant layout

Education

- University degree

Professional requirements

- Knowledge of legislation in the power industry field
- Experience /participation in execution of projects in the power industry field in international companies
- Knowledge of NPP and NPP technologies
- Minimum 5 years of experience in the field of nuclear energy

Personal abilities:

- Project management
- Management skills
- Decision-making
- The ability to solve problems
- Communication skills
- Creativity
- Target oriented
- Project management

Language Requirements

English

Location

Slovakia

I&C PLANT DESIGNER

Job Specifications/Tasks/Duties

This role is open for Electrical Engineering Graduates with a Higher Diploma with Experience of 5-7 years. Successful candidates will be trained in all aspects of working within the nuclear industry. During this time you will also receive the opportunity to be trained in design disciplines to consolidate all that you have learned, in a nuclear power facility design process. This opportunity will provide you with a unique platform to develop your Engineering skills and give you the necessary work experience required to choose a suitable career path.

By working on this project you will become part of a small group of people who possess an insight and set of skills that will allow you to work and develop a unique career in a nuclear industry.

You will be responsible for the I&C design works as a part of overall Plant design activities.

Technical/Academic Qualifications and Experience Required

- University Degree in a relevant discipline (MEng, MSc, PhD, Engineering school or University);
- A minimum Degree Grade of 2:1;
- A nuclear specialism would be a plus;
- Discipline, a capacity for analysis, a critical mind and a practical sense approach;
- Good written and oral communication skills and a high level of proactivity and flexibility;
- Organizational and team working skills to ensure your success in a stimulating human and technological environment;
- International mobility

Language Requirements

Fluency in English; Plant local language will be an advantage

Location

Slovakia, MO34 construction

NUCLEAR I&C SYSTEM ENGINEER

Job Specifications/Tasks/Duties

This role is open for Electrical Engineering Graduates with a Higher Diploma with Experience of 3-5 years. Successful candidates will be trained in all aspects of working within the nuclear industry. During this time you will also receive the opportunity to be trained in I&C systems operation and maintenance disciplines to consolidate all that you have learned, in a nuclear power facility design process. This opportunity will provide you with a unique platform to develop your Engineering and Nuclear operation skills and give you the necessary work experience required to choose a suitable career path.

By working on this project you will become part of a small group of people who possess an insight and set of skills that will allow you to work and develop a unique career in a nuclear industry.

You will be responsible for the Nuclear I&C Systems Operation and Maintenance works as a part of overall Nuclear Plant operation.

Technical/Academic Qualifications and Experience Required

- University Degree in a relevant discipline (MEng, MSc, Engineering school or University);
- A minimum Degree Grade of 2:1;
- A nuclear specialism would be a plus;
- Discipline, a capacity for analysis, a critical mind and a practical sense approach;
- Good written and oral communication skills and a high level of proactivity and flexibility;
- Organizational and team working skills to ensure your success in a stimulating human and technological environment;
- International mobility

Language Requirements

Fluency in English; Plant local language will be an advantage

Location

Slovakia, MO34 construction

ELECTRICAL CONTROLS AND INSTRUMENTATION ENGINEERS – UK Wide

Overview

Rolls-Royce is a global business providing integrated power systems for use on land, at sea and in the air.

Within the global nuclear industry, its focus is on providing nuclear power utility vendors and operators with integrated solutions and long-term support services spanning the reactor lifecycle, from concept design through to obsolescence management and plant life extension.

For more than 50 years, Rolls-Royce has been helping naval and commercial utility customers to maximize plant efficacy and safely extend facility lifetimes. Our capabilities cover four core areas of expertise:

- Safety, licensing and environmental engineering
- Mechanical systems and component engineering
- Instrumentation and control
- Commissioning & in-service support

Person specification

Rolls-Royce is offering a unique opportunity for EC&I engineers to work in a young growing business within the Nuclear sector. The scope of the role includes the Defense and Civil Nuclear businesses for both New Build and In-Service Support projects.

We require engineers from all disciplines of electrical, instrumentation and control engineering to specify, design, develop, test, and support systems and equipment to be fitted to civil nuclear reactors.

Responsibilities

- Engineering of EC&I systems throughout all phases of the project lifecycle.
- Design specification and integration of EC&I equipment and systems.
- Design substantiation of EC&I with respect to design standards, component quality and reliability.
- Liaison with suppliers (internal and external) to ensure equipment is supplied in accordance with project requirements.
- Undertake risk assessments in accordance with legislative requirements.
- Undertake fault analysis and reliability assessments using recognised techniques including FMEA, FTA, HAZID, HAZOP.
- Production of safety justifications of EC&I systems/components.

Qualification

- Degree/HND qualified applicants with a bias towards electrical, electronic, instrumentation or control systems engineering.

Experience

Applicants should ideally have nuclear industry experience of the following:

- System level architecture design and specification
- Verification and validation activity definition and implementation
- Current UK AGR/PWR fleet I&C systems and engineering processes
- Author verifier, design substantiation
- High integrity control systems
- High integrity protection systems
- Good communication and teamwork skills are essential.
- Ability to work to standards, processes and procedures is mandatory.
- Membership of an engineering professional institute would be preferable.
- Rolls Royce Nuclear business is conducted across multiple sites, both national and international; a flexibility and willingness to travel and work in other locations is preferred.

In return, we offer excellent development prospects, coupled with the competitive salary and exceptional benefits including bonus, childcare vouchers, employee support assistance, employee discounts and many others fantastic benefits

Rolls-Royce are an equal opportunities employer.

It is a fundamental term of your employment that you have permission under UK Immigration Law to undertake employment and where applicable, that you have and continue to hold valid and UK immigration clearance.

MECHANICAL DESIGN ENGINEERS

**Rolls-Royce®**

– Warrington & Derby

Overview

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Within the global nuclear industry Roll Royce's focus is on providing nuclear power utility vendors and operators with integrated solutions and long-term support services spanning the reactor lifecycle, from concept design through to obsolescence management and plant life extension.

For more than 50 years, Rolls-Royce has been helping naval and commercial utility, customers to maximise plant operation and safely extend plant lifetimes. Our capabilities cover four core areas of expertise, Safety, licensing and environmental engineering, Mechanical systems and component engineering, instrumentation and control and Commissioning and in-service support

Rolls Royce Nuclear are offering a unique opportunity for engineers to work on both Defence and Civil New build Nuclear projects.

Person Specification

Opportunities exist within engineering delivery unit for Mechanical Design Engineers who will specify, design, develop and support manufacturing and through-life, the mechanical plant and equipment to be installed in nuclear reactors. Candidates should have a strong focus on delivery to quality cost and time within a process driven environment, be self-starters and able to work as individuals or as part of a team. Experience of leading work packages would be advantageous but not essential. A willingness to work away from home would also be a distinct advantage

Responsibilities

- You will capture task requirements and translate into design intent.
- You will be responsible for the detailed design and specification of mechanical components and equipment such as pressure vessels, heat exchangers and mechanical handling equipment.
- You will deliver design substantiation of mechanical components and equipment, conducting stress analyses, fatigue and fracture analyses, pipe stressing and seismic analyses.
- You will provide support to procurement and manufacture, such as developing bid proposals and representing engineering function at make-buy reviews.
- You will liaise with suppliers (internal and external) to ensure components are cost-effectively manufactured to meet design requirements.
- You will also be required to attend risk reviews in support of the risk management process.

Qualifications

- You will be educated to degree level or equivalent in mechanical engineering or a related discipline.
- In addition, you will be experienced in capturing requirements, understanding the development of effective solutions and be able to describe the impact of design decisions on cost and manufacture.

Experience

- You will have a comprehensive understanding of component design. Knowledge of the design codes and standards applicable to the nuclear industry would be an advantage, in particular ASME III and RCC-M. Ideally you will have knowledge in structural integrity and failure mechanisms analysis of components and systems, and previous knowledge in a nuclear environment, though experience gained within other highly regulated industries will also be considered.
- You will negotiate, influence, and communicate effectively with internal and external customers at all levels and be able to deal effectively with ambiguity and multiple problems whilst working to tight timescales.
- You will be proficient in the use of MS Office and preferable have experience NX, ANSYS, Mathcad, Finglow, PSA5 or other similar packages.
- Membership of an engineering professional institute would be preferable but is not an essential requirement. You will be a strong communicator and will possess the ability to work as part of a team or as an individual. You will have the ability and willingness to work to process and procedure.

Rolls Royce Nuclear business has multiple UK sites; a flexibility and willingness to travel would be preferable.

In return, we offer excellent development prospects, coupled with the competitive salary and exceptional benefits including pension, bonus, childcare vouchers, employee assistance programme, employee discounts and many others fantastic benefits. Please note that salary will be dependent upon the skills and experience of the suitable applicant. Please provide details of your salary expectations.

Rolls-Royce is an equal opportunities employer.

We are unable to employ anyone who does not have the legal right to live and work in the UK.

In the absence of any candidate from outside the EEA possessing immigration status which allows them to live and work in the UK, Rolls-Royce will consider sponsorship under Tier 2 of the Points Based System. Sponsorship is subject to all the appropriate criteria (as specified by the UK Border Agency) being satisfied.

Should Rolls-Royce choose to sponsor a candidate who is outside of the UK then please note that it will be necessary for Rolls-Royce to make an application for a certificate of sponsorship from the UK Border Agency. Rolls-Royce cannot offer any guarantee that such a request will be successful.

In the recruitment process all candidates are required to provide the necessary right to work information and documentation.

NUCLEAR SAFETY CASE

ENGINEERS

/ SENIOR NUCLEAR SAFETY CASE ENGINEERS

- UK Wide

Overview

Rolls-Royce is a global business providing integrated power system for use on land, at sea and in the air.

Within the global nuclear industry, our focus is on providing nuclear power utility vendors and operators with integrated solutions and long-term support services spanning the reactor lifecycle, from concept design through to obsolescence management and plant life extension.

For more than 50 years, Rolls-Royce has been helping naval and commercial utility customers to maximise plant operation and safely extend plant lifetimes. Our capabilities cover four core areas of expertise:

- Safety, licensing and environmental engineering
- Mechanical systems and component engineering
- Instrumentation and control
- Commissioning & in-service support

Rolls Royce Nuclear are offering a unique opportunity for engineers to work on both Defence and Civil New Build Nuclear projects in the UK and overseas.

Person specification

We are particularly looking for safety engineers with hazards assessment experience and with probabilistic and reliability skills, to provide safety case input into the licensing of existing and next generation UK reactors and support systems. Although nuclear experience is preferred, individuals with knowledge of system safety and reliability analysis gained in other industries such as rail, oil & gas or aerospace would also be considered.

Responsibilities may include (in either a lead or supporting role)

- Preparation of staged safety cases (PSR, PCSR, POSR, etc) to support the operation of new plants.
- Preparation of modification safety case documentation for existing plants.
- Interfacing with the design teams to ensure the incorporation of nuclear safety case requirements.
- Acting as HAZOP/HAZID / SWIFT Chairman or Secretary.
- Undertaking hazard assessment, fault screening, deterministic and probabilistic safety assessment, ALARP studies, safety categorisation and SIL assessment.
- Conducting availability, maintainability and reliability analysis including FMECA.
- Producing probabilistic safety analysis including event and fault tree analysis.

Experience and Qualifications

- Degree in Engineering, Maths, Physics or equivalent.
- A good level of safety / reliability experience (at least some nuclear experience preferred)
- Track record of delivering high quality safety submissions.
- Good communication and teamwork skills.
- Ability to work to process and procedure.
- Experience in modern standard safety case writing for Nuclear Site Licensees would be an advantage.
- Knowledge of UK nuclear regulatory requirements would be an advantage.
- Knowledge of submarine and/or power station nuclear safety systems would be an advantage.
- Candidates would be expected to be working towards or achieved chartered status.

The Rolls Royce nuclear business has multiple UK sites; flexibility and a willingness to travel will be important.

In return, we offer excellent training and development prospects and opportunities for career progression, coupled with a competitive salary and exceptional benefits including bonus, pension scheme, childcare vouchers, employee support assistance, employee discounts and many others fantastic benefits.

We are unable to employ anyone who does not have the legal right to live and work in the UK. Due to the Coalition Government's interim immigration limits Rolls-Royce Plc's ability to sponsor employees under Tier 2 (General) of the Points Based System is very limited.

Candidates from outside the EEA are therefore encouraged to explore immigration routes which will allow them to work in the UK without such sponsorship. In the recruitment process all candidates are required to provide the necessary right to work information and documentation.

PIPING DESIGN ENGINEERS

– Warrington & Derby

Overview

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Within the global nuclear industry Roll Royce's focus is on providing nuclear power utility vendors and operators with integrated solutions and long-term support services spanning the reactor lifecycle, from concept design through to obsolescence management and plant life extension.

For more than 50 years, Rolls-Royce has been helping naval and commercial utility, customers to maximise plant operation and safely extend plant lifetimes. Our capabilities cover four core areas of expertise, safety, licensing and environmental engineering, mechanical systems and component engineering, instrumentation and control and commissioning and in-service support.

Rolls Royce Nuclear is offering a unique opportunity for engineers to work on both Civil Nuclear New build and Defence projects.

Person Specification

Opportunities exist within the engineering delivery unit for Piping Design Engineers who will specify, design, develop and support manufacturing and through-life of piping systems and associated components to be installed in nuclear plants. Candidates should have a strong focus on delivery to quality, cost and time within a process driven environment, be self-starters and able to work as individuals or as part of a team. Experience of leading work packages would be advantageous but not essential. A willingness to work away from home would also be a distinct advantage.

Responsibilities

- You will capture task requirements and translate into design intent.
- You will be responsible for the detailed design and specification of piping systems.
- You will deliver design substantiation using design-by-rule and design-by-analysis calculations, as required by appropriate piping design codes. These calculations will include detailed stress and fatigue analyses using finite element software.

Qualifications

You will be educated to degree level, or equivalent, in mechanical engineering or a related discipline. Membership of an engineering professional institute would be preferable but is not essential.

Experience

- You will have a comprehensive understanding of piping design codes such as B31.3, B31.1 and BSEN13480.
- Knowledge of design codes and standards applicable to the nuclear industry would be a distinct advantage, in particular ASME III and RCC-M.
- Ideally you will have gained experience in the following: welding & fabrication techniques, non-destructive testing & inspection techniques, structural integrity & failure mechanisms, seismic assessments, and other specialist pressure vessel knowledge.
- You will be proficient in the use of MS Office and preferably have experience in using ADLPipe, PSA5, PipeStress, CAESAR II, MathCAD software.
- You will be a strong communicator and will possess the ability to work as part of a team or as an individual.
- You will have the ability and willingness to work to process and procedure.
- You will negotiate, influence, and communicate effectively with internal and external customers at all levels and be able to deal effectively with ambiguity and multiple problems whilst working to tight timescales.

Rolls Royce Nuclear businesses have multiple UK sites; a flexibility and willingness to travel would be preferable.

In return, we offer excellent development prospects, coupled with the competitive salary and exceptional benefits including pension, bonus, childcare vouchers, employee assistance programme, employee discounts and many others fantastic benefits. Please note that salary will be dependent upon the skills and experience of the suitable applicant. Please provide details of your salary expectations.

Rolls-Royce is an equal opportunities employer.

We are unable to employ anyone who does not have the legal right to live and work in the UK.

In the absence of any candidate from outside the EEA possessing immigration status which allows them to live and work in the UK, Rolls-Royce will consider sponsorship under Tier 2 of the Points Based System. Sponsorship is subject to all the appropriate criteria (as specified by the UK Border Agency) being satisfied.

Should Rolls-Royce choose to sponsor a candidate who is outside of the UK then please note that it will be necessary for Rolls-Royce to make an application for a certificate of sponsorship from the UK Border Agency. Rolls-Royce cannot offer any guarantee that such a request will be successful.

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PRESSURE VESSELS DESIGN ENGINEERS

– Warrington & Derby

Overview

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Within the global nuclear industry Roll Royce's focus is on providing nuclear power utility vendors and operators with integrated solutions and long-term support services spanning the reactor lifecycle, from concept design through to obsolescence management and plant life extension.

For more than 50 years, Rolls-Royce has been helping naval and commercial utility, customers to maximise plant operation and safely extend plant lifetimes. Our capabilities cover four core areas of expertise, safety, licensing and environmental engineering, mechanical systems and component engineering, instrumentation and control and commissioning and in-service support.

Rolls Royce Nuclear are offering a unique opportunity for engineers to work on both Civil Nuclear New build and Defence projects.

Person Specification

Opportunities exist within the engineering delivery unit for Pressure Vessel Design Engineers who will specify, design, develop and support manufacturing and through-life of pressure vessels and associated equipment to be installed in nuclear plants. Candidates should have a strong focus on delivery to quality, cost and time within a process driven environment, be self-starters and able to work as individuals or as part of a team. Experience of leading work packages would be advantageous but not essential. A willingness to work away from home would also be a distinct advantage.

Responsibilities

- You will capture task requirements and translate into design intent.
- You will be responsible for the detailed design and specification of pressure components such as pressure vessels, heat exchangers, storage tanks and associated equipment.
- You will deliver design substantiation using design-by-rule and design-by-analysis calculations, as required by appropriate pressure vessel design codes. These calculations will include detailed stress and fatigue analyses using finite element software.

Qualifications

You will be educated to degree level, or equivalent, in mechanical engineering or a related discipline. Membership of an engineering professional institute would be preferable but is not essential.

Experience

- You will have a comprehensive understanding of pressure vessel design codes such as ASME VIII Div 1 & 2, PD5500 and BSEN13445. Knowledge of design codes and standards applicable to the nuclear industry would be a distinct advantage, in particular ASME III and RCC-M.
- Ideally you will have gained experience in the following: welding & fabrication techniques, non-destructive testing & inspection techniques, structural integrity & failure mechanisms, seismic assessments, and other specialist pressure vessel knowledge.
- You will be proficient in the use of MS Office and preferably have experience in using ANSYS, MathCAD, Finglow and solid-modelling software.
- You will be a strong communicator and will possess the ability to work as part of a team or as an individual. You will have the ability and willingness to work to process and procedure.
- You will negotiate, influence, and communicate effectively with internal and external customers at all levels and be able to deal effectively with ambiguity and multiple problems whilst working to tight timescales.

Rolls Royce Nuclear businesses have multiple UK sites; a flexibility and willingness to travel would be preferable.

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PRINCIPAL PROCESS ENGINEER



Overview

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For more than 50 years, Rolls-Royce has been helping naval and commercial utility and customers to maximise plant operation and safely extend plant lifetimes. Our capabilities cover four core areas of expertise:

- Safety, licensing and environmental engineering
- Mechanical systems and component engineering
- Instrumentation and control
- Commissioning & in-service support

Person specification

Rolls Royce Nuclear are offering a unique opportunity for engineers to work on both Defence and Civil New build Nuclear projects

The Process Engineers will be involved in the specification, design, development, testing and through-life support of Nuclear reactor fluid systems and Nuclear Reactor waste treatment plants.

A willingness to work away from home would also be a distinct advantage.

Responsibilities

- Be technically responsible for packages of work providing leadership and delivery against programme milestones.
- Act as a recognised technical authority in Process Engineering.
- Take an active role in the development, selection and progression of other members of the team.
- Develop the Process Engineering principles, methods and procedures.
- Design and specification of process systems, such as Radioactive waste treatment plants.
- Detailed design and specification of components, such as pressure vessels and heat exchangers.
- Provide key inputs to design reviews.
- Support to the business development function.
- Good communication skills are essential as well as the ability to work as part of a team or as an individual. You will negotiate, influence, and communicate effectively with internal and external customers at all levels.

Experience

A degree in Chemical Engineering or a related discipline.

- A comprehensive understanding of process engineering design.
- Proven experience and expertise in the field of Process Engineering, specifically relating to heat transfer and fluid flow analysis of thermo-fluid systems and design of Nuclear Process Plants.
- Membership of an engineering professional institute, or a clear plan in place to achieve chartered status.

Rolls Royce Nuclear business has multiple UK sites; a flexibility and willingness to travel would be preferable

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THERMOFLUIDS ENGINEER

– Warrington & Derby

Overview

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- Safety, licensing and environmental engineering
- Mechanical systems and component engineering
- Instrumentation and control
- Commissioning & in-service support

Person Specification

Thermofluids engineers are responsible for thermal performance analysis and supporting the experimental work to support design, safety justification, in-service support and manufacturing aspects of current projects across the Rolls-Royce Nuclear sector.

Responsibilities

As a Thermofluids engineers, you will carry out thermal hydraulic performance analyses of systems and components within the Nuclear Island. Typically this is achieved using a combination of CFD and bespoke in-house codes thermal analysis models and hand calculations. Validation of these models is an important task. The methods and results of such analyses are then reported to support the plant design or safety justification as appropriate.

Qualifications

- Degree or equivalent in a relevant science or engineering based subject
- Previous experience of thermo/fluid dynamics or similar technical analysis
- An analytical mind with good numeracy and literacy
- Ability to work flexibly - both as an individual and closely with other team members
- Good experience of technical computing

Experience

- Familiarity with the design of pressurized water reactor plants.
- Experience of software development using, Matlab Fortran, C or similar.
- Experience with CFD or mathematical modelling of physical phenomena.
- Experience of designing or operating thermal hydraulic test rigs.
- Familiarity with numerical analysis and finite difference schemes

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In the recruitment process all candidates are required to provide the necessary right to work information and documentation.





European Nuclear Society
Rue Belliard 65
1040 Brussels, Belgium
Telephone: +32 2 505 30 50 - FAX: +32 2 502 39 02
careers@eurnuclear.org
www.enc-2012.org