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Business area: Nuclear & Power

Requirements: Minimum 2:2 Bachelor's degree or above in Systems Engineering, Mechanical Engineering, Process Engineering, Electrical/Electronic Engineering, Aeronautical Engineering, Software Engineering, Civil Engineering or other relevant Engineering or STEM discipline.

Our teams and what they do

Our Nuclear & Power business works collaboratively across the industry, building trust and delivering exceptional engineering solutions to our key clients. It's a really exciting time to be a part of our team, with decades of nationally and internationally critical projects in the pipeline. For you, this means unrivalled opportunities to develop your career by joining a growing team operating in a fast-paced environment and delivering solutions to our clients' most challenging engineering requirements.

Systems Engineering seeks to better manage and control the increasing complexity within the large-scale projects of today through the application of Systems Thinking, Requirements and Interface Management and Configuration Control among others. It is a growing discipline within the Nuclear industry with more and more organisations turning to it as a tool to help better deliver their projects on time and on budget.

Team Details

Decommissioning & Waste Services (DWS)

Locations within this Team: Sheffield, Manchester.

Our market focuses on supporting the delivery of engineering design for enrichment and fuel manufacture, plant life extension, decommissioning and waste handling projects across their full life cycle including commissioning and operation. We can offer our own products and technology to provide innovative solutions the accelerate the pace of change and provide resource augmentation to support our clients and partners.

Our Systems Engineering capability is a new and rapidly expanding capability within our market which seeks to better manage and control the increasing complexity within the large-scale projects of today through the application of Systems Thinking, Requirements and Interface Management and Configuration Control among others. It is a growing discipline within the nuclear industry with more and more organisations turning to it as a tool to help better deliver their projects on time and on budget.

Alongside Systems Engineering, we have strong capabilities in the design, assessment and substantiation of structures, machinery, mechanical handling equipment, low voltage electrical systems as well as control and instrumentation systems. We tackle projects that have varied technical challenges and significant nuclear and conventional safety hazards. Our projects require proactive and collaborative working to brilliantly engineer a cleaner, safer, net zero world.

We continually invest in our people, technology, working facilities and supporting resources to ensure that we strengthen and grow our current capabilities as well as develop new capabilities. This allows us to deliver projects using industry leading and innovative techniques, such as utilising our growing technology solutions and robotics capabilities and showing that our solutions work through active demonstrators.

The role will see you learn and use techniques such as:

- Requirements & Acceptance: Capturing needs as robust requirements and developing ways in which they can be successfully tested;
- Integration: Understanding the interactions between systems and how they behave as a whole;
- Systems Thinking: Understanding the purpose and context of a system, how they behave and how they manage themselves;
- Model Based Systems Engineering (MBSE): Developing system architectures, models and simulations to support system requirements, design, analysis and test activities;
- Communication: Explaining complex concepts to stakeholders and non-technical team members and acting as a 'bridge' between technical teams to help them better understand their interdependencies with one another.
- As a developing capability, we are constantly looking for ways to improve and expand our processes and methods. Consequently, while the work diet will primarily involve supporting new and ongoing projects, you will be encouraged to take opportunities to contribute towards shaping our processes and best practice.

By joining us as a Graduate Systems Engineer, you will benefit from:

- Working with passionate and diverse minded people in multi-disciplinary teams to understand problems and develop solutions;
- Using strategic thinking to identify interactions between people, processes, technology and the world;
- Finding innovative ways to understand and communicate complex ideas;
- A thriving Early Careers community, with focused mentoring and support on the beginning of your journey towards professional registration.

Locations for this business will include: Sheffield or Manchester

To apply, please return to the main job specification