

<b>Business area:</b> Nuclear and Power
<b>Requirements:</b> On track to achieve a minimum of a 2.2 Master's/MEng degree in a relevant subject
<b>Our teams and what they do</b>
<b>Whitehaven</b> You'll be part of a forward thinking, highly innovative Mechanical team working at the cutting edge of digital design and pushing the standard norms of how engineering projects are delivered in the 21 <sup>st</sup> Century. Working on some of the most complex and challenging decommissioning projects within the Nuclear industry from initial concept through to detailed design and delivery, you'll find the work diverse, immersive and ultimately very rewarding. The ideal candidate will have an interest in static and dynamic mechanical loading and have a real passion for 3D digital innovation and 3D modelling with a vision for how this can shape the future of engineering.
<b>Epsom</b> You'll find yourself in the Plant & Systems Engineering team. Working across our entire Nuclear Market (including new build, generation and decommissioning) our clients include EDF Energy, CGN, UKAEA and Magnox. We're looking for student who have a keen interest in mechanical equipment design and procurement, piping systems and project engineering.
<b>Derby</b> As a trusted advisor to the UK nuclear market, we can't always shout about the work we're involved with, but you can expect to play your part in major projects, such as the design of nuclear fuel handling equipment, stress analysis on safety critical pressure vessels and supporting manufacture of nuclear plant components to name but a few. With capability in mechanical design and analysis, nuclear substantiation, nuclear safety case work and manufacturing consultancy, we provide technical expertise to major nuclear companies, the defence sector, and across the wider energy market, helping them to deliver innovative and successful projects. In Derby you'll enjoy great opportunities to shape your future career, gaining valuable experience every step of the way. Your professional development will be a high priority. From bid work to project delivery to project management, you'll have the chance to work on high profile and innovative projects, with the flexibility to experience a broad range of disciplines and roles.
<b>Sheffield</b> Based in our brand-new city centre office; the team is set up primarily for advanced mechanical design projects, with a speciality for mechanical handling and heavy moving structures. The office has a particularly diverse work stream, across many sectors such as Nuclear Decommissioning, Nuclear New Build, Defence, Transportation, Water, Offshore and more. The office currently has engineers working on high profile projects such ITER nuclear fusion reactor, Triton Knoll Offshore Windfarm, Hinkley Point C amongst many other fascinating projects, big and small. Day-to-day a candidate could expect to be involved with developing design and substantiation calculations, writing technical reports, identifying customer requirements and producing specification & work closely with colleagues in home office and across wider Atkins to deliver work effectively.
<b>Glasgow</b> You'll find yourself working primarily on projects in energy systems assets market. Our portfolio of projects encompasses asset integrity, design and assurance for a variety of clients across a broad spectrum of facilities ranging from district heating, biomass, gas and CHP networks to large scale generation plant, gas and oil storage and decentralised energy assets encompassing work towards achieving net zero. We're looking for candidates who have a keen interest in structural & mechanical design and analysis, pressure and pipework systems or rotating equipment working across all of the

various energy sectors who are studying towards a Mechanical Engineering or an integrated Mechanical and Electrical Engineering degree.

## **Bristol**

Based here you'll find yourself working on projects primarily in the Nuclear industry. Our work is wide ranging and includes: maintenance and life extension of the UK nuclear fleet as part of the Technical Support Alliance for EDF Energy Nuclear Generation; New Build projects including Hinkley Point C, CGN and ITER; decommissioning projects including support to the Magnox fleet; as well support to other clients such as HMNB Devonport and AWE. We're looking for candidates from a Mechanical Engineering or heavily mechanically focussed background. In the Bristol office you could work in one of the following groups:

### Plant Systems and Safety

The Plant Systems and Safety group supports clients with the changes to design and operation of nuclear power plant mechanical systems. The work is focused primarily on the currently operating nuclear power plants in the UK. The group have a close working relationship with our clients, and client engagement will be encouraged from the start of your career. Technically, our work is broad but can include: safety case development, engineering design and substantiation, hazard assessment and project management. Everything we do centres around a safety conscious approach to work, requiring an attention to detail and methodical work process. A questioning attitude is encouraged to all aspects of work facilitated by an inclusive and supportive culture in the team.

### Design and Analysis

The Design and Analysis group specialises in novel design, substantiation and integrity assessment of systems in a wide range of temperatures and environmental conditions, often pushing the boundaries of current assessment techniques to achieve life extension of critical infrastructure. Project work is predominantly nuclear focussed but there are also opportunities to undertake challenging technical work within our wider energy portfolio such as conventional power, oil and gas and renewables.

### Reactor Decommissioning

The Reactor Decommissioning group works across numerous plant areas, each with different technical challenges, but with a focus on nuclear decommissioning and waste management. Project work can include design and assessment of Intermediate Level Waste (ILW) and Low Level Waste (LLW) retrieval and processing techniques, packaging of waste for transportation and long-term storage, assessment of existing plant and support to the planning and infrastructure required for decommissioning. You'll be expected to help define the problem, identify an appropriate methodology, and justify the right solution.

### Building Design

The Building Design group is primarily set up to deliver multi-disciplinary packages of work on key facilities, systems and components across the full spectrum of the Nuclear Power Stations. Mechanical roles within the group relate to the design, optioneering, analysis and assessment of HVAC and Mechanical Process systems, which can be stand-alone technical tasks or part of large multi-disciplinary projects. Work is varied and often involves working both in a specialised mechanical capacity as well as across and alongside other engineering disciplines.

**To apply, please return to the main job specification**