

Business area: Nuclear and Power
Requirements: Minimum 2.2 Master's/MEng degree in Chemical or Process Engineering
Our teams and what they do
<p>Our team engineers, manages, delivers and decommissions nuclear facilities worldwide. We use the latest technology solutions to deliver efficient nuclear power today and safeguard our energy future.</p> <p>Atkins has been delivering engineering services to the global power sector for over 20 years. We are trusted partners for Hinkley Point C new build, Sellafield waste management and Magnox decommissioning work. We're now leaning into new energy challenges such as offshore generation and transmission, energy from waste, electric vehicle infrastructure and the integration of smart grid technology - helping to drive evolution in the power sector.</p> <p>With an unwavering commitment to safety, quality and efficiency, we are well positioned to add value to today's challenges of delivering the next generation of nuclear power plants while at the same time maintaining the existing generating fleet and safely decommissioning legacy facilities. We're now looking to the future, working with Small Modular Reactor (SMR) developers to advance new designs and developing digital applications, such as virtual and augmented reality, for the nuclear industry.</p> <p>We have opportunities for graduates across a range of our Nuclear teams in the UK. From a chemical process degree, you could be working in one of the following teams, here's a little about what they do;</p>
North West
<p>As a graduate process engineer in the Nuclear and Power Warrington office you could be working on an array of interesting and challenging projects both inside and outside of the nuclear industry. In the current team, we are working on projects in the oil & gas and semi-conductor industries in addition to nuclear submarines. Our portfolio of projects is ever adapting to the needs of our clients and will give you a diverse experience of process engineering. Some of the work we complete for our clients includes authoring technical specifications, carrying out feasibility studies, optioneering, tender evaluation and independent design review/verification. The team can also support clients in equipment selection and specification, fluid & particle dynamics, compressible/incompressible flows, plant optimisation and process review, mass & energy balance calculations, hazard identification and assessments, safety system design, HAZOPs, front end and detailed design together with on-site support.</p>
Scotland
<p>You will likely have a process engineering degree although other disciplines will be considered for the right candidate. Our team supports new build projects across a range of technologies including gas, biomass, WtE for both large scale and decentralised energy assets. We also assist our Clients in maintaining, and improving the performance of, their existing assets. We're looking for bright, enthusiastic engineers who thrive on a varied technical challenge and want to play their part in changing the way we generate and use electricity and heat.</p> <p>In addition to some of the responsibilities, as graduate engineer, you could also be involved in;</p> <ul style="list-style-type: none">• Supporting on some major projects across various areas of Energy from nuclear decommissioning, power generation and renewables.• Working in partnership with our clients to provide professional consultancy advice, helping them deliver their complex engineering programmes• Reviewing and developing designs to improve plants, equipment, structures and Energy related systems• Carrying out surveys and site inspections

- Using a variety of engineering software packages, as well as 2D and 3D modelling for new designs and modifications
- Producing safety cases, reports and documentation to support the planning, design, operation, maintenance and decommissioning of Energy facilities
- Carrying out design and assessment for new build projects as well as additions, modifications and repairs to existing assets.

South West

As part of the process team you would be involved in technically demanding projects, providing system descriptions, technical specifications and be involved in delivering multidisciplinary design optimisation.

Projects our team are currently involved with include:

- Developing waste processing designs for HPC from detailed design through commissioning. Our team offers site support and secondment opportunities in the UK Design Centre at Edvance.
- Feasibility assessment of direct heat usage technologies for integration with UKAEA's planned STEP fusion reactor.
- Designing innovative high temperature test loops for UKAEA's NTHF, using novel materials and measurement techniques.
- Detailed design of gas systems for semiconductor manufacturing, providing high precision flow networks and safely designing for toxic and flammable materials.

Our team has a designated net-zero focus group, offers tailored training opportunities and charership mentoring. The team is committed to developing new graduates and using your unique skills to push a low-carbon energy future.

Locations for this business will include:

Bristol
Glasgow/Edinburgh
Warrington

To apply, please return to the main job specification