

<b>Business area: Nuclear and Power</b>
<b>Requirements:</b> On track for a minimum of a 2.2 Master's/MEng degree in MPhys or similar degree in Safety, Geology, Environmental (and related disciplines), Reliability, Physics, Chemistry, Mechanical Engineering, Chemical Engineering, Nuclear Science or Nuclear Engineering.
<b>Our teams and what they do</b>
<p>We're the teams that engineer, deliver, manage and decommission nuclear facilities worldwide, using the latest technology solutions to ensure the lights stay on and the world remains a safe place. Atkins has more than 60 years' experience in the nuclear industry, from new build and generation, to decommissioning and waste management, and fuel enrichment and defence.</p> <p>With an unwavering commitment to safety, quality and efficiency, we're 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>Safely managing the hazards associated with nuclear facilities throughout their lifecycle is a very important aspect of work within the nuclear industry. Atkins support our clients with this important task from two main teams working collaboratively from different UK offices. We have opportunities for placement students with an engineering or science background in the following teams and regions:</p>
<b>Epsom</b>
<u>Nuclear Safety and Environmental Services Team</u>
Based here as a Safety Engineering placement student you'll be working on projects primarily in the Nuclear Market. Some of our recent project work has been in support of new nuclear facilities in the UK. You could be involved in major UK projects including new power stations such as Hinkley Point C and Bradwell B or supporting the continued safe operation of our existing nuclear licensed sites in the Southeast. We're looking for candidates who have a keen interest in problem solving, analytical thinking and strong communication skills (both verbal and written).
<b>Bristol</b>
<u>Plant Systems and Safety Team</u>
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, with secondment opportunities available to work a client site, within offices or at station. 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. Candidates typically come from a Mechanical or Physics background with an interest in Safety, but studying towards a Master's degree in Nuclear Science or Engineering subjects are encouraged to apply.
<u>Nuclear Safety and Environmental Services Team</u>
As a Nuclear Safety Engineering placement student, you could be working on a range of different projects across the industry. Our work allows for us to be involved in every part of the nuclear life cycle, with key areas including new build, operation and life-extension of existing facilities, and

decommissioning. You could be involved in major UK projects including new power stations, such as Hinkley Point C, or support the continued safe operation of our existing nuclear licensed sites. We're looking for candidates who have a keen interest in problem solving, analytical thinking and an interest in nuclear technologies. Candidates will typically come from a scientific background and be studying Physics, Chemistry or Engineering. Additionally, candidates studying towards Master's degrees relating to Nuclear Science or Nuclear Engineering are encouraged to apply.

## **Bristol**

### Nuclear Decommissioning:

You'll be involved in helping our clients solve a range of technical problems which arise when undertaking with waste management from nuclear sites. Our clients include EDF Energy, MAGNOX, Sellafield and Rolls Royce. Working across numerous plant areas each with different technical challenges, but with a focus on nuclear decommissioning and waste management a placement student could expect to be involved in:

- Design and assessment of waste retrieval and processing techniques
- Providing technical solutions for the packaging of waste for transportation and long-term storage
- assessment of existing plant and support to the planning and infrastructure required for decommissioning
- Undertaking technical assessments to define the impacts to workers and environment

## **Warrington**

### Nuclear Safety and Environmental Services Team

The Warrington team support our clients with nuclear safety throughout all parts of the nuclear industry. Currently approximately half our team are working on projects related to nuclear new build reactors. The other half are doing work related to generating nuclear power stations (working alongside our colleagues in the Plant Systems and Safety Team) and decommissioning nuclear facilities. We've also previously been involved in projects related to nuclear fuel enrichment.

Our radiation shielding and criticality capability also sits within the Warrington part of the Nuclear Safety and Environmental Services Team. Within this area, our team specialise in running radiation shielding computational simulations and completing shielding, dose and criticality assessments. As a Nuclear Safety Engineering placement student in Warrington you could have the opportunity to work across the different areas described above.

We're looking for candidates who have a keen interest in problem solving, analytical thinking and strong communication skills (both verbal and written). Candidates will typically come from a scientific background and be studying Physics, Chemistry or Engineering. Additionally, candidates studying towards master's degrees relating to Nuclear Science or Nuclear Engineering are encouraged to apply.

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