

OXFORD SIGMA JOB DESCRIPTION

8th March 2024

Job title:	Development Engineer
Job location:	Oxford City Centre, UK
Hours:	Flexible, full-time (37.5 hours per week)
Salary:	Competitive
Dates:	April 2024
Reference:	OS-JA-DEVENG-01

Company

Our vision is to tackle energy security and climate change by accelerating the commercialisation of fusion energy. **Our mission** is to deliver materials technology, materials solutions, and fusion design services in order to assist fusion delivery.

About us: We are a small, organically grown, company owned and operated by scientists and engineers, with our roots and headquarters in Oxford. We have established ourselves as a highly respected technical service supplier for the fusion energy market, within both the private and public sectors, nationally and internationally. We are equally a research and technology development company developing novel disruptive materials and design technologies to help in the required fundamental shift for the world's clean energy future.

Role

We are expanding our technical team in technology development, to develop testing facilities for fusion materials technology. The role will require the candidate to:

- Design, develop, test, and analyse solutions for managing elevated temperature flow of corrosive liquids;
- Develop specifications for prototypes through to commercial products;
- Create designs, and engineering drawings to recognised codes and standards, such as ASTM, EN, BS, ASME BPVC, and liaise with manufacturers to procure components to quality;
- Identify and implement environmental, health and safety considerations on test and prototype devices;
- Maintain documentation on development activities, and decision points using conventional engineering management approaches;
- Build and support relationships with a network of subcontractors to enable engineering progression.

The role will require teamwork, and the ability to communicate complex challenges to a range of audiences. Materials are a grand challenge for the realisation of fusion power on the grid, you will be working on problems without obvious solutions requiring tenacity, and lateral approaches to solve. Some national and international travel will be required.

Qualifications & experience

Ideally, you will have some of these:

- A strong background in R&D engineering – with experience in one or more of mechanical, thermofluids, materials, or manufacturing;
- A desire to find solutions using a combination of first-principles, general engineering and simulations;
- Awareness of legal and contractual aspects of project activities, such as procurement, negotiation, and compliance;
- An ability to communicate technical concepts to technical non-specialists;
- Excellent verbal and written communication and presentation skills;
- Experience as a project team member in a multi-partner environment.

Maybe, you will have some of these:

- Experience supporting, and developing junior engineers;
- Experience with elevated temperature system design, development, controls and/or instrumentation;
- Start-up experience, a desire to build business, and strategise for the future.

Eligibility

The candidate must have the right to work in the UK

Our benefits

- 28 days annual leave
- Annual bonus up to 10%
- Flexible working around core hours
- Company pension scheme
- Cycle2Work scheme
- Company share options

Additional Information

We value diversity and inclusion in our engineering team and we welcome applicants from all backgrounds and identities. We know that skills and potential are not always captured by a list of requirements. If you are passionate about engineering and eager to learn, we want to hear from you. Please contact Mélanie Bombardiere, the hiring manager, to explore how this role or other opportunities we have can suit your strengths and aspirations.

Apply

Submit your CV and cover letter (both PDF format) at www.oxfordsigma.com/careers/.

The application deadline is **17:00 5th April 2024**