Reference:	**SRM008**
Job Title:	Scientific Software Engineer
Company:	ESR Technology
Location:	Birchwood Park, Warrington (near Manchester)
Employment Category:	Full Time (37.5 hours per week)
Salary/Benefits:	Competitive salary, with excellent benefits including 25 days annual leave plus statutory holidays, additional leave purchase, up to 8% matched pension contribution, health care, life assurance and more

The Company

ESR Technology is a leading engineering consultancy that provides expert advice and solutions in the fields of safety, tribology, non-destructive testing and space mechanisms. With over 50 years of experience, ESR Technology offers a range of services to clients across various sectors, including aerospace, energy and transport. Our services include safety and risk management, forensic engineering and mechanism development for the space industry. We pride ourselves on our technical expertise, innovative solutions, and commitment to delivering high-quality results to our clients.

As part of our services, we develop and maintain leading scientific and engineering software for commercial applications, internal project requirements and research.

We are committed to better safety, improving reliability, cleaner energy and a greener environment through the development of our staff.

The Job

We are looking for a talented and motivated Scientific Software Engineer to join our team. As a key member of our team, you will be responsible for designing, developing, and maintaining software for engineering, safety and risk and other scientific applications in the Energy, Non-Destructive Testing and Space sectors.

You will work with leading experts on novel projects that require strong technical skills in C++ and/or C# with a solid scientific background and have a major influence on our software direction.

Requirements

The successful candidate will need to be self-motivated and able to prioritise work. It is essential that the candidate has the experience to:

- Design, develop, and maintain software for scientific applications.
- Collaborate with scientists and engineers to understand their needs and requirements.
- Write quality code in C++ or C# to implement scientific algorithms.
- Optimize software performance to run efficiently on high-performance computing systems.
- Test and debug software to ensure its correctness and robustness.
- Document software designs, algorithms, and usage.

Qualifications and Skills

- A good degree in Computer Science, Software Engineering or a scientific degree (e.g. Physics).
- Strong programming skills in C++ and/or C#.
- Experience in developing scientific software or other technical software to a commercial standard.
- Strong analytical and problem-solving skills.
- Good communication skills and ability to work in a team.

Experience in some or all of the following would be advantageous:

- Experience with C++ and Qt framework.
- Experience with C# and .NET Framework, .NET Core, .NET 5/6/7, Blazor.
- Familiarity with parallel computing and multithreading.
- Experience with project management tools such as Jira and Confluence.
- Experience with version control systems such as Bitbucket (minimum Git).

Right to Work

Prospective candidates for this role should be aware that any offer of employment in connection with this vacancy is conditional upon, and subject to the candidate obtaining, and at all times continuing to have, the right to live and work in the United Kingdom.

If you are a self-starter, able to take ownership of a project and who is passionate about scientific software development, we would like to hear from you. We offer a competitive salary, a challenging work environment, and opportunities to work on novel and interesting projects.

Write with full CV, highlighting what you can contribute in this diverse and interesting role to careers@esrtechnology.com