

Research and Software Developer in Numerical Linear Algebra (IRC218777)
STFC Rutherford Appleton Laboratory, Harwell, Oxfordshire
Salary: £28,384 to £31,808 (dependent upon qualifications and experience)
2.5 Years Fixed Term

About Us

At the Science and Technology Facilities Council (STFC) you belong to a community of experts who are driving science and technology forward. Our incredible diversity of research, technology and engineering projects truly fire the imagination and lead to real-world solutions which shape societies and transform lives.

About The Role

We are looking for a talented and enthusiastic researcher to join our Numerical Analysis research team within the STFC's Scientific Computing Department for a three year period. The team is internationally known for its research into numerical linear algebra and optimization. The role involves both algorithmic research and the translation of this research into software.

You will be working in collaboration with world leaders in the field through an EU Horizon 2020 research grant. The NLAJET project focuses on delivering new algorithms and technologies for dense and sparse linear algebra on next generation supercomputers. The work at STFC will focus mainly on the strong scaling of sparse direct solvers using task-based paradigms, though contributions will be made across the full range of the project. Impact will be delivered through publication of technical reports and research papers, through presentations at workshops and conferences and through the development and release of high quality research software.

Responsibilities will include:

- Research into new parallel algorithms for solution of dense and sparse linear equations
- Design and development of robust and efficient implementation
- Writing technical reports and research papers
- Presentations at workshops and conferences
- Active collaboration with our international partners
- Implementation of algorithms in high quality research software
- Testing and benchmarking across a range of HPC systems
- Occasional UK and international travel

About You

The qualities that we are seeking can be grouped as:



- PhD (or equivalent research experience) with strong emphasis on numerical or computational mathematics
- Evidence of high quality research in numerical linear algebra
- Significant experience in parallel C/C++ or Fortran
- Understanding of technical issues around numerical computing and research software
- Ability to communicate well in written and spoken English

Benefits

We give you the flexibility, the freedom and the world-class facilities to focus on what you do best, and play your part in breakthroughs and achievements that will give you great job satisfaction.

An attractive index linked pension scheme, 30 days leave allowance and flexi-time are offered, as well as an onsite nursery, subsidised restaurant, gym and sports facilities. A relocation allowance may also be available where applicable.

Online applications only, please submit a covering letter and CV, ensuring that the IRC reference is included in the file name description of each document uploaded. No Agencies.

The **closing date** for applications is **20th March 2016** and short-listed candidates will be **interviewed** on an ongoing basis and will be held at Rutherford Appleton Laboratory, Oxfordshire.

Applications are handled by UK SBS; to apply please visit our job board at http://www.topcareer.jobs/Vacancy/irc218777_6232.aspx. Applicants who are unable to apply online should contact us by telephone on 01793 867000.