



**UNIVERSITY OF LEEDS**

## **CANDIDATE BRIEF**

**Research Fellow in Software Engineering and Machine Learning,  
Faculty of Engineering and Physical Sciences**



**Salary: Grade 7 (£39,355 – £46,735 p.a.) Due to funding restrictions, an appointment will not be made higher than £40,497 p.a.**

**Reference: EPSCP1168**

**Location: Leeds main campus (with scope for hybrid working)**

**Closing date: Wednesday 02 July 2025**

**Fixed-term for up to 18 months**

**We are open to discussing flexible working arrangements**



# **Research Fellow in Software Engineering and Machine Learning, School of Computer Science.**

**Are you a researcher looking for your first challenge? Are you passionate about making computers faster and more reliable? Do you have experience in machine learning applications for software performance optimisation and want to join a world-leading research group recognised for its advancements in this field?**

You will play a leading role in projects that expand our expertise in machine learning-based code optimisation. You will develop novel techniques that harness the power of machine learning to create optimisation strategies for compilers and memory management libraries for next-generation computing hardware.

We are looking for a candidate with a strong background in computer science, a particular interest in software engineering and low-level systems programming, and a desire to perform cutting-edge research and publish in top conferences and journals.

If you want to be part of a team that is leading ground-breaking research and development in software optimisation, we encourage you to apply. As a member of our team, you will have the chance to collaborate with renowned researchers from other universities and industries worldwide. Additionally, our group maintains strong ties with other prominent companies and research groups, enabling extensive opportunities for career development.

## **What does the role entail?**

As a Research Fellow, your main duties will include:

- Supporting the development of software infrastructures, demonstration systems and documentation according to the project objectives;
- Collaborating with the project partner and assisting in the coordination of development activities within the project;
- Preparing and presenting talks and reports to disseminate the results of the project, and Participating in project meetings;
- Ensuring good progress is maintained, and work is undertaken in a systematic way that is well documented;



- Generating and pursuing independent and original research ideas in the appropriate subject area;
- Developing research objectives and proposals and contributing to setting the direction of the research project and team including preparing proposals for funding in collaboration with colleagues;
- Evaluating methods and techniques used and results obtained by other researchers and relate such evaluations appropriately to your research;
- Making a significant contribution to the dissemination of research results by publication in leading peer-reviewed journals and by presentation at national and international meetings;
- Working both independently and also as part of a team of researchers, both internally and externally, to develop new research links and collaborations and engage in knowledge transfer activities where appropriate;
- Maintaining your own continuing professional development and acting as a mentor to less experienced colleagues as appropriate;
- Contributing to the training of both undergraduate and postgraduate students, including assisting with the supervision of projects in areas relevant to the project.

These duties provide a framework for the role and should not be regarded as a definitive list. Other reasonable duties may be required consistent with the grade of the post.

## What will you bring to the role?

As a Research Fellow, you will have:

- A PhD (or have submitted your thesis before taking up the role) in Computer Science;
- A strong background in low-level systems programming;
- Experience in algorithm design and implementation for optimising software;
- Experience in software engineering and low-level systems programming;
- Experience in algorithm design and implementation for software optimisation and reliability;
- The potential to develop new research themes;
- Good time management and planning skills, with the ability to meet tight deadlines and manage competing demands effectively without close support;



- A developing track record of peer-reviewed publications in international journals;
- Excellent communication skills, both written and verbal, and the ability to communicate your research at national and international conferences;
- A proven ability to work well both independently and in a team;
- A strong commitment to your own continuous professional development.

You may also have:

- Experience of pursuing external funding to support research;
- Working experience in machine learning and deep learning;
- Working experience in compilers or operating systems.

## How to apply

You can apply for this role online; more guidance can be found on our [How to Apply](#) information page. Applications should be submitted by **23:59** (UK time) on the advertised [closing date](#).

## Contact information

To explore the post further or for any queries you may have, please contact:

**[Professor Zheng Wang](#), Professor of Intelligent Software Technology**

Tel: +44 (0)113 343 1077

Email: [Z.Wang5@leeds.ac.uk](mailto:Z.Wang5@leeds.ac.uk)

## Additional information

### Faculty and School Information

Further information is available on the research and teaching activities of the [Faculty of Engineering & Physical Sciences](#), and the [School of Computer Science](#).





## **Working at Leeds**

We are a campus-based community and regular interaction with campus is an expectation of all roles in line with academic and service needs and the requirements of the role. We are also open to discussing flexible working arrangements. To find out more about the benefits of working at the University and what it is like to live and work in the Leeds area visit our [Working at Leeds](#) information page.

## **A diverse workforce**

As an international research-intensive university, we welcome students and staff from all walks of life and from across the world. We foster an inclusive environment where all can flourish and prosper, and we are proud of our strong commitment to student education. Within the Faculty of Engineering and Physical Sciences we are dedicated to diversifying our community and we welcome the unique contributions that individuals can bring, and particularly encourage applications from, but not limited to Black, Asian and ethnically diverse people; people who identify as LGBT+; and people with disabilities. Candidates will always be selected based on merit and ability.

The Faculty of Engineering and Physical Sciences are proud to have been awarded the Athena SWAN [Silver](#) Award from the Equality Challenge Unit, the national body that promotes equality in the higher education sector. Our [equality and inclusion webpage](#) provides more information.

## **Information for disabled candidates**

Information for disabled candidates, impairments or health conditions, including requesting alternative formats, can be found under the 'Accessibility' heading on our [How to Apply](#) information page or by getting in touch by emailing HR via [hr@leeds.ac.uk](mailto:hr@leeds.ac.uk).

## **Criminal Record Information**

### **Rehabilitation of Offenders Act 1974**

A criminal record check is not required for this position. However, all applicants will be required to declare if they have any 'unspent' criminal offences, including those pending.

Any offer of appointment will be in accordance with our Criminal Records policy. You can find out more about required checks and declarations in our [Criminal Records](#) information page.



### **Salary Requirements of the Skilled Worker Visa Route**

Please note that this post may be suitable for sponsorship under the Skilled Worker visa route but first-time applicants might need to qualify for salary concessions. For more information, please visit [the Government's Skilled Worker visa page](#).

For research and academic posts, we will consider eligibility under the Global Talent visa. For more information, please visit [the Government's page, Apply for the Global Talent visa](#).

