



UNIVERSITY OF LEEDS

## CANDIDATE BRIEF

Lecturer in Mineral Scaling (Teaching and Research)

Faculty of Engineering and Physical Sciences



**Salary: Grade 8 (£45,585 – £54,395 p.a.)**

**Reference: EPSME1173**

**Location: Leeds campus**

**Closing date: Tuesday 27 August 2024**

**Full-time, ongoing**

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

## Lecturer in Mineral Scaling (Teaching and Research), School of Mechanical Engineering.

Are you an experienced researcher and educator looking for your next opportunity? Do you have a strong research background and a vision to build your career in one of the UK's leading universities? Are you passionate about delivering an exceptional student experience and contributing to our School's academic excellence?

We are looking for an outstanding candidate to join our team and contribute to the excellent research and teaching activities in the School of Mechanical Engineering. You will play a key role in the delivery of our undergraduate and postgraduate programmes in Mechanical Engineering and build research activity complementary to School and University research strengths.

The recruitment of this post forms part of an ongoing process of investment in the School of Mechanical Engineering that has generated continuing growth in staff and student numbers. As part of this strategy, we are seeking to strengthen our research and education in the area of mineral scaling, particularly in the context of large-scale renewable energy systems. Strong candidates in other application areas are encouraged to apply as well.

You will be able to demonstrate a strong track record of high-quality publications in relevant research areas and have a **clear vision** of your research direction and how you will develop your research activities through external funding. Joining the [School of Mechanical Engineering](#).

The School is established as one of the world leaders in Corrosion and Mineral Scaling – with a current grant portfolio over £10M. Your research will contribute to the Institute of Functional Surfaces at the University of Leeds in the area of Mineral Scaling Formation and Mitigation.

You will be passionate about educating the next generation of engineers and research leaders with the ability to deliver high quality student education. You will demonstrate excellent team working skills with an ability to work in a cross-cultural, multi-disciplinary team and possess excellent communication skills. Working in a supportive and successful environment you will contribute to the School's international research and teaching reputation of the School of Mechanical Engineering.



## What does the role entail?

As a Lecturer (Teaching and Research), your main duties will include:

- Contributing to the delivery of an exceptional student education and overall experience within the School through:
  - Delivering high-quality research-led teaching, including assessment and examinations in a timely manner at different levels and through different modes of study (on-campus, on-line and/or off-site);
  - Providing support, guidance and timely feedback to students, acting as a personal tutor, resolving issues or referring to specialist parties where appropriate;
  - The development and delivery of modules and degree programmes within the School, including the development of innovative educational approaches, and participating in review and quality assurance.
- Developing and delivering a planned programme of research and innovation in Mechanical Engineering with impact at an international level. This will include:
  - Being actively involved in research, innovation and impact at a national and international level, as well as contributing to local School/Faculty activity;
  - Maintaining a record of high-quality research outputs including publications and conference presentations;
  - Attracting research funding individually and collaboratively to underpin your research plan;
  - Building academic networks to enable the integration of your own research area with other research interests within and, as appropriate, outside the School of Mechanical Engineering;
  - Providing research supervision and helping to attract funded postgraduate research students to the University.
- Contributing effectively to the administrative processes and committee structures of the School/Faculty including taking on leadership roles (such as programme manager/laboratory captain) and where appropriate, managing initiatives which facilitate School, Faculty or University performance.



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 Lecturer (Teaching and Research), you will have:

- A PhD degree in Mechanical Engineering or a related discipline;
- A proven record of teaching in a University environment, with the ability to interact with students in ways that will enhance the student experience;
- Experience of proactively developing new teaching approaches and materials;
- Experience of providing postgraduate student supervision;
- A track record of research outputs, within the area of Mechanical Engineering, in refereed publications of internationally excellent quality;
- Evidence of research excellence in the field of Mineral Scaling;
- Experience in application of experimental methods to evaluate mineral scaling kinetics and mitigation techniques;
- A successful record of obtaining external research funding with the potential for obtaining further funding in the future;
- The ability to develop research networks and interdisciplinary collaborative research projects in a broad range of areas;
- A high level of interpersonal and communication skills, and a strong ability to communicate effectively in writing and verbally with students, academic and external audiences;
- An ability to contribute to management and administrative processes and structures, including managing resources and/or staff.

You may also have:

- Experience of contributing to academic leadership;
- Experience of undertaking outreach and publicity activities;
- Membership of the Higher Education Academy (FHEA or equivalent) or other teaching qualification appropriate for higher education.



## 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](#).

Your application should include:

- A cover letter of no more than two pages comprising:
  - (i) a statement outlining your research vision and future funding strategy.** You should explain how your research aligns with iFS, wider university research strengths as well as with national and global research priorities, how it complements existing activity and how you would utilise and build upon established facilities and expertise. A feasible pathway to obtaining external research funding to support your research vision.
  - (ii) a statement of your teaching experience.** You should explain how your teaching philosophy aligns with the University of Leeds student education strategy available here: <https://spotlight.leeds.ac.uk/strategy-student-education/index.html>.
- **A copy of your curriculum vitae** giving full details of qualifications, research and teaching experience and a record of research grants and publications.

## Contact information

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

**[Professor Neil W. Bressloff](#)**, Head of the School of Mechanical Engineering

Tel: +44 (0) 113 343 6812

Email: [N.Bressloff@leeds.ac.uk](mailto:N.Bressloff@leeds.ac.uk)



## Additional information

### Faculty and School Information

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

The University of Leeds Vision and Strategy can be found [here](#) with specific sections around [research and innovation](#) and [teaching](#).

### 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.

### 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.

### Information for disabled candidates

Information for disabled candidates, impairments or health conditions, including requesting alternative formats, can be found on our [Accessibility](#) information page or by getting in touch with us at [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.

