



UNIVERSITY OF LEEDS

## CANDIDATE BRIEF

University Academic Fellow in Advanced Manufacturing Processes,  
Faculty of Engineering



**Salary: Grade 8 (£40,792 – £48,677 p.a.)**

**Reference: ENGME1215**

**Closing date: 01 September 2019**

**We will consider flexible working arrangements**

# University Academic Fellow in Advanced Manufacturing Processes

## School of Mechanical Engineering

**Are you an experienced and ambitious researcher looking for your next challenge? Do you have a strong research background in Manufacturing Processes? Do you want to further your career in a World-Leading research group and a research-intensive Russell Group University?**

With a vision and drive to contribute to a World-Leading research portfolio, as well as a passion for undertaking research-led teaching, you will make a significant impact on the performance, stature and profile of research and student education at The University of Leeds.

The [Future Manufacturing Processes Research Group](#) explore how novel methods of manufacturing can provide new capabilities in products and services across a wide range of industrial applications. The group have a large portfolio of externally funded research projects, in addition to significant flexible funding for long-term strategic research initiatives. The group have recently been recognised, by extensive external peer review, to be World Leading. Your research will complement and augment our research activities in manufacturing processes.

The group's research is conducted from an original baseline, which allows us to explore novel hypothesis and paradigms of new manufacturing capabilities. This means that a large proportion of our work involves the design, engineering, and creation of unique electro-mechanical apparatus that operates under computer-control. This involves multiple aspects of engineering. Consequently, we are looking for an outstanding candidate that will make contributions to new manufacturing processes, with specialised areas of study that may include (but not exclusive to):

- Machine design and engineering
- Materials engineering for manufacturing processes
- Non-conventional manufacturing processes
- Computer-aided-manufacture
- Robotics, mechatronics, and automation





This University Academic Fellowship (UAF) is for future academic leaders, providing an excellent opportunity to establish an academic career at a research intensive university and play a key role in our ambitious plans for the future.

You will embark on a structured five year development programme, successful completion of which will lead to your appointment as a grade 9 Associate Professor.

We are looking for a motivated and proactive individual to strengthen and enhance our current and future research activities. This varied role will include developing new concepts of manufacturing processes, communicating and convincing of their merits to a range of stakeholders, and contributing to our practice in research management through the mentorship and supervision of our researchers. Along with the structured programme of academic development provided by the University, the appointed will also benefit from the direct mentorship of the group leader, Professor Russell Harris.

You will have a PhD (or equivalent qualification), the ability to teach at both undergraduate and postgraduate level, as well as outstanding post-doctoral research experience in a relevant subject area. You will also have the significant potential to obtain competitive research funding, along with the initiative, motivation and enthusiasm for supporting and advancing the Universities research and student education goals.

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

As a University Academic Fellow your main duties will include:

- Developing and leading research programmes in areas that complement and augment the existing strengths of the Future Manufacturing Processes research group;
- Working alongside the research group leader to generate new research funding income and research projects in the subject of Future Manufacturing Processes;
- Extending and strengthening your record of high quality publications in independently peer reviewed journals of high international standing;
- Promoting collaboration in your own research area with other cross-disciplinary research areas in the University;
- Undertaking research-led teaching at undergraduate and/or postgraduate level, with engagement in continual improvement in response to student and other feedback;



- Contributing to the design, development and planning of modules and policy within the subject area as required;
- Supervising BEng/MEng undergraduate and MSc (Eng) postgraduate students;
- Providing effective research supervision and helping to attract research students to the School;
- Developing links with external contacts such as industry and research bodies, to foster collaboration and generate income;
- Participating in the recruitment, management and development of staff as well as acting as a mentor to less experienced colleagues;
- Contributing to the development and achievement of University, Faculty and School strategy within the context of an international, research-led university;
- Maintaining own continuing professional development.

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 University Academic Fellow you will have:

- A PhD (or equivalent qualification) in a relevant Engineering or Scientific field;
- Research and/or industrial expertise in areas that complements the Future Manufacturing Processes Research Group;
- A track record of high quality publications within peer reviewed journals of high international standing and/or a track record of leading industrial innovation;
- Experience in pursuing and securing obtaining external funding (through grant funding or contract funding), with significant potential for obtaining research funding in the future;
- The vision to create and develop a compelling academic plan that complements the existing research group, that will lead to international impact;
- Evidence of building strong working relationships within and, as appropriate, beyond your own discipline and to contribute to successful projects and collaborations;
- 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;



- The ability to teach effectively at undergraduate and taught course graduate levels, and the ability to interact with students in ways that will enhance the student experience;
- The ability to contribute effectively to the administrative activities of the School;
- Be in a position to train towards, or directly apply for, membership the Higher Education Academy (or equivalent);
- Evidence of the ability to build partnerships with academic, industrial, professional and public sector organisations on interdisciplinary collaboration, knowledge exchange and funding;
- Experience of working collaboratively with external partner organisations;
- Experience of mentoring less experienced colleagues.

## 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 Russell Harris](#), Head of the Future Manufacturing Processes Research Group, School of Mechanical Engineering**

Email: [r.harris@leeds.ac.uk](mailto:r.harris@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 the [School of Mechanical Engineering](#). You can find out more about our current staff and their career journeys in our staff profiles booklet, [Footsteps – A Journey in Science](#).





### **A diverse workforce**

The Faculty of Engineering is 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**

Find out more about the benefits of working at the University and what it's like to live and work in the Leeds area on our [Working at Leeds](#) information page.

### **Candidates with disabilities**

Information for candidates with disabilities, impairments or health conditions, including requesting alternative formats, can be found on our [Accessibility](#) information page or by getting in touch with us at [disclosure@leeds.ac.uk](mailto:disclosure@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.

