



UNIVERSITY OF LEEDS

CANDIDATE BRIEF

Professor of Medical Engineering,
Faculty of Engineering & Physical Sciences



Salary: Grade 10 (£60,905 – £74,863 p.a.)

Reference: EPSME1011

Closing date: 24 November 2019

We will consider flexible working arrangements

Professor in Medical Engineering School of Mechanical Engineering

Are you an experienced and influential academic in medical engineering looking to join an internationally-renowned group? Do you have an excellent research track record, proven success in obtaining funding and the vision and drive to tackle new challenges? Are you passionate about delivering world-leading research and an exceptional student experience?

The Institute of Medical and Biological Engineering (iMBE) at the University of Leeds is a world-leading centre for medical engineering. The institute spans the faculties of Engineering & Physical Sciences and Biological Sciences, and brings together a multidisciplinary team dedicated to improving the quality of life of an ageing population and achieving a vision of '50 active years after 50'. Driven by clinical challenges, the iMBE undertakes research to innovatively develop, test and translate novel therapies and devices into practical clinical applications. The research focuses on longer lasting joint replacements, tissue sparing interventions and biological scaffolds for tissue regeneration, supported by computational and experimental simulation systems for design and pre-clinical testing. Over the last 10 years, the iMBE has received awards from government, charities, healthcare bodies and industry which total in excess of £60 million, and is recognised for its excellence in medical engineering, receiving the Queen's Anniversary Prize for Higher and Further Education in 2012. The iMBE hosts a number of national centres, including the EPSRC Innovation and Knowledge Centre in Medical Technologies, as well as a partnership with the Leeds Teaching Hospitals NHS Trust through an NIHR Biomedical Research Centre.

This new senior position forms part of an ongoing process of investment in the School of Mechanical Engineering that has generated continuing growth in staff, student numbers and research income. As part of this strategy, we are seeking to broaden the scope of research activities in the iMBE, particularly into the areas of musculoskeletal multi-body modelling, or activity monitoring and rehabilitation, along with associated data acquisition and interpretation. These fields complement existing iMBE activity and provide collaborative opportunities across the university with research activities in medical robotics, sports science and clinical biomechanics.

We are seeking to appoint one candidate at either Associate Professor or Professor level. A separate advert describes the Associate Professor role, and candidates are encouraged to apply at the grade that is most appropriate to their career stage.



What does the role entail?

As a Professor your main duties will include:

- Establishing and leading a world-class research programme achieving sustained high levels of research funding individually and/or in collaboration with others and maintaining high quality research outputs in leading internationally-recognised publications;
- Inspiring students through research-led teaching on undergraduate and postgraduate taught courses, taking a lead role in the development of modules and programmes and achieving high standards of student feedback;
- Taking a leading role in the design, development and planning of modules and programmes, and in translating excellence in research and scholarship into learning opportunities for students;
- Working as appropriate with key stakeholders to ensure our research is informed by and impacts on key societal challenges;
- Professing and promoting the area medical engineering nationally and internationally, winning prestige for both the discipline and the University;
- Developing and maintaining networks and promoting links with funding agencies, and other public and private sector organisations;
- Providing a major contribution to the strategic academic development, direction and leadership of the School, Faculty and University, including participation in governance and through external representation. For example, you will provide strategic leadership for major initiatives that will integrate with and build on existing activities at Leeds;
- Supporting and mentoring less experienced academic and research staff to promote career development and the nurturing of leadership potential and academic talent;
- Attracting high quality postgraduate research students and providing them with excellent supervision, supporting timely completion and subsequent career progression;
- Promoting a supportive, vibrant and inclusive environment for staff and students, with active consideration of equality and inclusion;
- Leading and delivering major initiatives and/or multidisciplinary areas of work which improve 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 Professor you will have:

- A PhD or other doctorate in medical engineering or a relevant discipline;
- An outstanding record of research and publication, meeting international standards of excellence, in an area that complements and broadens current research themes within the iMBE, for example in the areas of musculoskeletal multi-body modelling, activity monitoring and rehabilitation, along with associated data acquisition and interpretation;
- Demonstrated excellence in all aspects of the student education experience, including an understanding of the principles of research-led teaching, a track record of integrating research with learning and teaching to deliver an excellent student experience via teaching, tutoring and the supervision of research projects, and the demonstrable ability to lead the development of a portfolio of modules;
- Experience in the sustained delivery of ambitious and imaginative leadership, with a vision and drive for results and quality that promotes excellence in education and research, and a willingness and capacity to take on a significant role in Faculty/School development, with the ability to think creatively and to anticipate trends and opportunities;
- The demonstrated ability to provide academic leadership in research both via your own work and through the encouragement of, and provision of guidance to, your colleagues;
- A track record in helping less experienced academic staff to progress successfully from PhD student, to post-doctoral researcher, and beyond;
- A sustained track-record in attracting significant external funding to support a world-leading portfolio of research;
- Experience in developing impact from your research, ideally extending beyond academic impact to aspects of social, economic, policy, or other impact areas;
- International links and evidence of effective engagement with, and influencing of, national and international research agendas;
- The ability to work across subject areas, linking appropriately with other disciplines and research groups;



- A track record of effective team working and collaborative development, including excellent communication and interpersonal skills;
- A commitment to promoting and supporting diversity, equality and inclusion within the School.

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.

As part of your online application, please include a copy of your CV and a list of publications. Please also include a statement of your research, your approach to student education, the way you might lead the development of the School, and how you could contribute to fostering a diverse and inclusive academic community.

Contact information

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

Ruth Wilcox, [Professor Biomedical Engineering](#)

Tel: +44 (0)113 343 7980

Email: r.k.wilcox@leeds.ac.uk

Additional information

Faculty and School Information

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

A diverse workforce

The Schools in the Faculty of Engineering & Physical Sciences are proud to have been awarded the Athena SWAN [Bronze](#) or [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 is 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.

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.

