



**Faculty of Biological Sciences  
School of Biomedical Sciences**

**Lecturer/ Associate Professor in Biomechanics**

We are seeking five highly motivated and successful academics to contribute to world-class research and teaching within Sport and Exercise Sciences at the University of Leeds, recently awarded the prestigious title of 'University of the Year' by The Times/Sunday Times for 2017.

As a biomechanist you will work with a vibrant, dynamic research group who were ranked 1<sup>st</sup> for 'World Leading' 4\* research in the 2014 Research Excellence Framework (REF), you will be embedded within Sports and Exercise Sciences in the School of Biomedical Sciences (SBMS) and will complement our exciting research portfolio. Research in biomechanics spans both fundamental and applied research, covering a wide range of areas. Current studies are aimed at understanding how muscles are used to move humans and/or animals, including the links between musculoskeletal design, locomotor performance and energetics. We also study the mechanics of lower limb function in sport and injury, the biomechanical impact of physical activity on prosthesis function, and rehabilitation following spinal cord injury. To complement our existing research (<http://www.fbs.leeds.ac.uk/research/ses/>) we welcome applications from candidates who have a research portfolio that includes, but is not limited to, the following areas:

- Experimental and theoretical approaches to studying locomotion in humans and/or animals;
- Musculoskeletal biology in relation to function;
- Soft tissue biomechanics;
- Biomechanics in relation to ageing, pathobiology, assistive technology and rehabilitation;
- Neuromuscular biomechanics;

You should have a PhD in Biomechanics, or a related area, together with a track record of original publications and evidence of grant income to support research activities commensurate with career stage. You should be able to demonstrate your ability to teach effectively at an undergraduate level, as well as being able to enthuse and inspire our students. The primary criterion for appointment will be academic excellence.

**University Grade 8 (£39,324 - £46,924 p.a.) – Lecturer**  
**University Grade 9 (£48,327 - £55,998 p.a.) – Associate Professor**

**Candidates are expected to be in post before Academic Year 2017/18.**

**Informal enquiries may be made to:**

**Professor Paul Millner, Head of Biomedical Sciences, tel +44 (0)113 343 3149, email [p.a.millner@leeds.ac.uk](mailto:p.a.millner@leeds.ac.uk)**

**Dr Sarah Astill, Director for Student Education, tel +44 (0)113 343 7267, email [s.l.astill@leeds.ac.uk](mailto:s.l.astill@leeds.ac.uk)**

**Professor Stuart Egginton, Research Theme Lead for Sport & Exercise Sciences, tel +44 (0)113 343 2264, email [s.egginton@leeds.ac.uk](mailto:s.egginton@leeds.ac.uk)**

**Closing Date: 5 March 2017**

**Interviews are expected to take place in late March 2017.**

**Ref: FBSBM1058**

**Click here for further information about working at the University of Leeds [www.leeds.ac.uk/info/20025/university\\_jobs](http://www.leeds.ac.uk/info/20025/university_jobs)**

## **Job Description**

**Responsible to: Head of School of Biomedical Sciences**

**Reports to: Professor Paul Millner**

**For appointment at University Grade 8**

### **Main duties and responsibilities**

#### **Research**

- To lead independent research projects and to contribute to the research activity of Sport and Exercise Sciences, the School/Faculty
- To establish a record of regular publication of original research in leading international journals and to develop a high national and international profile
- To attract research income on an individual and collaborative basis, where appropriate and feasible
- To provide research supervision and attract research students to the university
- To take part in knowledge-transfer activities, where appropriate and feasible

#### **Teaching and Scholarship**

- To teach at different levels as appropriate to the post
- To be fully involved in the assessment of course work and examinations
- To contribute to the review of modules and programmes and quality assurance mechanisms
- To utilise innovative approaches to learning and teaching
- To contribute to the planning and development of modules within the relevant subject area
- To undertake a teaching load as deemed appropriate by the Head of School and take part in other teaching-related activities, as appropriate

#### **Administration**

- To contribute effectively to the administrative process and the committee structures of the School, and as appropriate of the Faculty and wider University
- To maintain own continuing professional development and act as a mentor to less experienced colleagues, as appropriate
- To maintain a safe work environment, including ensuring compliance with legislation and the undertaking of risk assessments
- To undertake any other duties as may reasonably be required, consistent with the grade of the post, as requested by the Head of School or nominee

## **For appointment at University Grade 9**

### **Main duties and responsibilities**

#### **General**

- To contribute to the development and achievement of University, Faculty and School strategy within the context of an international, research-led university
- Adhere to University values and standards, including the Leadership and Management Standard, and in line with university policies and procedures and local faculty/school benchmarks as appropriate, upholding high professional standards and leading by example
- To be aware of and work in line with the university's learning and teaching partnership agreement and work with our students as members of a learning community to provide world class education and an excellent student experience
- To maintain own continuing professional development
- To maintain a safe and healthy work environment, including ensuring compliance with health and safety legislation and the undertaking of appropriate risk assessments
- To integrate the University value of inclusiveness into all appropriate aspects of the job; respecting the dignity and diversity of all members of the University community and of visitors to the University

#### **Research, Innovation and Impact**

- To be recognised as an authority in the field, developing and maintaining an external profile as appropriate to the discipline
- To pursue, develop and lead research, innovation and impact at an appropriately benchmarked level
- To develop the strategic direction within own research area
- To promote the integration of own research area with other research interests within and, as appropriate, outside the school and faculty
- To maintain a high quality record of regular and original research publications of external standing as appropriate to the discipline
- To attract research income on an individual and collaborative basis, as appropriate to the discipline, to underpin high quality research activity
- To provide high quality postgraduate supervision and attract research students to the university
- To take part in knowledge transfer activities, where appropriate and feasible

## **Scholarship**

- To develop and lead pedagogic developments relating to learning and teaching to a level recognised externally for excellence
- To produce scholarly pedagogic publications, disseminating findings across the university and externally
- To promote theoretically informed and innovative approaches to learning and teaching related activities across the University and externally
- To maintain an external profile within learning and teaching or own subject area at a level appropriate to the discipline
- To have a significant role in the strategic development of the curriculum and learning and teaching / student support policies
- To supervise students undertaking research projects as appropriate

## **Teaching**

- To undertake research-led teaching at different levels on undergraduate and/or postgraduate taught courses, regularly collecting, and responding to, student feedback
- To contribute at an appropriate level to school and faculty policy and practice in teaching To play a significant role in the design, development and planning of modules and programmes within the subject area as required
- To play a significant role in the review of modules and programmes and in quality assurance and enhancement as required
- To develop innovative approaches to learning and teaching as appropriate
- To provide timely feedback and assessment of coursework and examinations
- To provide general support and guidance to students, resolving issues and/or referring to specialist parties, where appropriate
- To act as a personal tutor, supporting involvement in Leeds for Life

## **To provide academic leadership through**

- Significant contribution to the overall work of the university and/or equivalent external organisations by representing the school and faculty on appropriate committees and groups
- Effective contribution to the management and administrative processes and committee structures of the school, faculty and university
- Managing or leading major initiatives or areas of work (as either sustained or one-off projects) which facilitate school, faculty or university performance or business as required
- Involvement in the recruitment, management and development of staff and act as a mentor to more junior/less experienced colleagues

- The promotion of the values of collegiality within the academic community
- Actively promoting and engaging with the objectives of our valuing and developing all our staff agenda via compliance with the University's People Management Framework to ensure high standards of employment practices across the School

## **University Values**

All staff are expected to operate in line with the University's values and standards, which work as an integral part of our strategy and set out the principles of how we work together. More information about the University's strategy and values is available at <http://www.leeds.ac.uk/comms/strategy/>.

The University of Leeds' commitment to women in science has been recognised with a national accolade. The University has received the Athena SWAN Bronze Award and the Faculty of Biological Science holds the Athena SWAN Bronze Award in recognition of our success in recruiting, retaining and developing/promoting women in Science, Technology, Engineering, Maths and Medicine (STEMM). We are proud of our commitment to equality and inclusiveness.

Protected characteristics are under-represented in the Faculty in posts in this area. We would therefore particularly welcome applications from members of such groups, however, any appointment will be made entirely on merit.

## **Person Specification**

### **For appointment at University Grade 8**

#### **Essential**

- A PhD in Biomechanics or allied discipline
- Postgraduate and postdoctoral research experience in Biomechanics, or related area, ideally including some experience as an independent research fellow
- A successful record of obtaining external research funding or the demonstration, through the elaboration of a defined research proposal compatible with the strategic goals of Sport and Exercise Sciences and the School of Biomedical Sciences, or the potential to obtain such funding
- Willingness and ability to teach effectively at undergraduate level and an enthusiastic approach to all aspects of teaching, evidenced for example by some prior training in teaching methods at university level and/or by student feedback, and a willingness to undertake appropriate training
- Ability to motivate and engender enthusiasm in others, as evidenced for example in student feedback obtained from teaching
- A high level of interpersonal and communication skills, including written and presentational, and the ability to work as member of a team
- A proven record of achievement as a single or main author of refereed publications of international quality
- The ability to provide inspiring leadership among your research colleagues
- The ability to work effectively, responsibly and independently, and to work under pressure
- Initiative, motivation and enthusiasm for supporting and advancing research in Biomechanics
- Ability to work as part of a team to collaborate and co-operate with others, particularly in relation to shared laboratory facilities

#### **Desirable**

- Some recent experience of delivering teaching to undergraduate and postgraduate students in a related subject, or experience in development of higher education teaching materials

## For appointment at University Grade 9

### Essential

- A PhD in Biomechanics or an allied discipline
- Postgraduate and postdoctoral research experience in Biomechanics, or related area
- Experience of and a commitment to the development of high quality research in Biomechanics, or related area
- A coherent five-year research plan
- A proven record of achievement as a single or main author of refereed publications of international quality
- A successful record of obtaining external research funding, or the demonstration, through the elaboration of a defined research proposal compatible with the strategic goals of the Sport and Exercise Sciences and the School of Biomedical Sciences, or the potential to obtain such funding
- Maturity, sound judgement and effectiveness in carrying out research
- Initiative, motivation and enthusiasm for supporting and advancing research in Biomechanics, or related area
- Experience and proven success in training postgraduate research students
- The ability to provide inspiring leadership within your research group
- The ability to work effectively, responsibly and independently, and to work under pressure
- Recent experience of delivering teaching in a related subject to undergraduate students, including the development and delivery of novel teaching material
- The willingness and ability to teach effectively at undergraduate level and an enthusiastic approach to all aspects of teaching, evidenced for example by some prior training in teaching methods at university level and/or by student feedback, or by a willingness to undertake appropriate training
- Knowledge and awareness of the potential of current educational technological advances in learning and teaching
- The ability to motivate and engender enthusiasm in others, as evidenced for example in student feedback obtained from teaching
- The willingness and evidence of ability to contribute effectively to the administrative activities of the Faculty
- A high level of interpersonal and communication skills, including written and presentational, and the ability to work as member of a team
- Good organisational ability, including the ability to manage time effectively and prioritise tasks



- The ability to collaborate and co-operate with others, particularly in relation to shared laboratory facilities

### **Associate Professor Candidates**

Applicants for Associate Professor would normally be expected not only to be experienced teachers but to have a significant publication record, together with proven research experience, and to have demonstrated administrative skill.

## **Additional Information**

### **Working at Leeds**

You can find out more about our generous benefits package and more about what it is like to work at the University and live in the Leeds area in our [Working at Leeds](#) information.

### **Candidates with disabilities**

Information for candidates with disabilities, impairments or health conditions, including requesting alternative formats, can be found in our [Accessibility](#) information 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.

## Further information

### Sport and Exercise Sciences and the School of Biomedical Sciences

Staff allied to the Sport and Exercise Sciences, contribute to both our programmes; BSc/MSci Sport and Exercise Sciences and BSc/MSci Sport Science and Physiology, which cover aspects of biomechanics, motor control, exercise physiology and exercise psychology. These programmes received a 95% overall satisfaction score in the last NSS (2015-2016), are consistently ranked in the top 10 of key league tables used across the UK, and currently 1<sup>st</sup> for Sport and Exercise Sciences across all Russell Dean Universities. Our staff are embedded in the Cardiovascular and Sport Sciences research group, which alongside Integrative Membrane Biology and Neuroscience comprise the three research groups based in the School of Biomedical Sciences. Research in the Sport and Exercise Sciences was ranked 1<sup>st</sup> for 'World Leading' 4\* research in the 2014 Research Excellence Framework (REF), and is well-funded from RCUK, charitable and industry sources and there is an exciting and interactive environment for modern research relating to exercise and health.

Research interests in the Sport and Exercise Sciences are broad-ranging. Current studies are aimed at understanding how muscles are used to move people and other animals, including the links between musculoskeletal design, locomotor performance and energetics. We are also evaluating performance in triathlon and rowing and investigating the mechanical impact of footwear on injury potential.

Our research space has recently been refurbished to a high standard. The Faculty and the University as a whole operate "low-wall" principles for research groupings, centres and schools with the aim of encouraging cross-disciplinary research and integrative approaches to big scientific questions. A number of staff are located within, or collaborate with researchers from Leeds NHS Teaching Hospitals giving direct access to clinical colleagues, and we collaborate with researchers in Faculties from across the University (e.g. Mechanical Engineering, Institute of Psychology). Specifically, we are collaborating with colleagues in Mechanical Engineering and in Robotics as well as designers/ manufacturers of biomedical devices, particularly in the area of prosthetic limb and replacement joint design and evaluation. This places the Sport and Exercise Sciences, a powerful scientific environment that encourages and supports research and research-training at the highest level.

### Faculty of Biological Sciences

The Faculty of Biological Sciences is one of the leading groups of life-science researchers within the UK, offering superb facilities, providing a high quality research training environment and delivering an exceptional student education. Our position amongst the UK elite for [bioscience research](#) was confirmed in the last government Research Assessment Exercise (RAE) 2008 when we were ranked 4th for biological sciences in the UK by the leading scientific journal *Nature* based on the number of staff producing research that was 'world leading' or 'internationally excellent'.

In addition to 110 academic staff, the Faculty has over 400 postdoctoral fellows and postgraduate students supported by a current active research grant portfolio of some

£53m derived from a range of sources including charities, research councils, the European Union and industry.

With around 2000 undergraduate students and 150 taught postgraduate students, we are one of the largest life sciences faculties in the UK. Our programmes cover the breadth of the biological sciences with undergraduate programmes in the areas of biology, biochemistry, microbiology, sport and exercise sciences and medical sciences including physiology and neuroscience.

Significant investments in our infrastructure contribute to our dynamic and vibrant research environment, offering excellent opportunities for leading edge research focused around key areas, including neuroscience, sports and exercise science, membrane biology, and structural molecular biology.

The Faculty has 3 Schools:

- [School of Biomedical Sciences](#)
- [School of Molecular and Cellular Biology](#)
- [School of Biology](#)

Find out more about the Faculty [here](#).