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UNIVERSITY OF LEEDS

APPOINTMENT TO THE CHAIR OF SMART ENERGY SYSTEMS, SCHOOL OF ELECTRONIC AND ELECTRICAL ENGINEERING

June 2017





EXECUTIVE SUMMARY

Awarded its Royal Charter in 1904 and helmed by Sir Alan Langlands as Vice-Chancellor, the University of Leeds is one of the UK's largest and foremost research-intensive universities with an annual turnover of nearly £640 million.

Leeds is consistently recognised amongst the world's top 100 universities in the QS World University Rankings and placed 9th within the top 10 in the UK for both research impact and research power in the most recent Research Excellence Framework (REF). The assessment identified that over 80 per cent of research at the University was either "world-leading" or "internationally excellent".

Following two years as runner-up, Leeds was named *University of The Year* in 2017 in *The Times* and *The Sunday Times' Good University Guide*. This prestigious award recognises all-round academic excellence and the University's equal emphasis on student experience - in addition to research strength - is strongly reflected in the latest National Student Survey (2016) where Leeds achieved 90 per cent student satisfaction. The University is commended for its unparalleled student pastoral care systems including the *Leeds for Life* Scheme, which functions to prepare students for life after they leave university.

The University of Leeds is building up an innovative research activity in Smart Energy Systems to address the global grand challenge of developing and implementing technologies to achieve sustainable, clean, secure and resilient energy supply and usage.

In view of this agenda, the University is now seeking to appoint a Professor of Smart Energy Systems. The Professor will join the newly formed Institute of Communication and Power Networks within the School of Electronic and Electrical Engineering. The Institute combines world class expertise in energy-efficient communication networks with innovation in heterogeneous electrical power systems to provide a fertile platform for novel developments in responsive/interactive energy networks. The University welcomes applications from those with research experience in fields such as: grid-integration of renewable energy sources; grid energy management and control; distributed generation management; hardware design for smart grids; electric vehicle infrastructure design, and integration of communications systems with electrical power networks.



UNIVERSITY OF LEEDS – FURTHER INFORMATION

The University of Leeds, a member of the prestigious Russell Group, is home to over 33,000 students from 151 countries and serves as the third largest employer in Leeds, with over 7,800 staff. A truly cosmopolitan campus, the University has an international student population of 1,277 from EU countries, 5,697 from other international countries and staff of 99 different nationalities.

The University is also a founder member of the World Universities Network (WUN), a global alliance of major international higher education institutions gathered from the UK, North America, Asia, Africa and Australia.

CAMPUS DEVELOPMENTS

In recent years the University has undertaken an ambitious capital investment programme of £520 million to further strengthen the University's positioning as a top higher education institution in the UK. The developments include state-of-the art undergraduate provision in the recently completed £26 million Laidlaw Library and the construction of a £96 million Integrated Campus for Engineering and Physical Sciences.

For further details, please visit: <http://campusdevelopments.leeds.ac.uk/projects/>

VALUES

The University's core values, which shape key elements of the University's Strategic Plan 2015-2020, are as follows:

- Academic excellence: knowledge, academic freedom, critical independence, creativity, innovation and world-class performance;
- Community: public service and citizenship; collegiality, teamwork and mutual respect;
- Integrity: openness, transparency and honesty;
- Inclusiveness: diversity, equal opportunity and access;
- Professionalism: provision of effective and efficient customer-focused services in all aspects of our work (internally and externally).

To download the University's Strategic Plan 2015-2020 visit:

http://www.leeds.ac.uk/downloads/download/72/corporate_publications



UNIVERSITY STRUCTURE

The University comprises eight academic faculties, each further broken down into a combination of Schools, Institutes and Centres:

- Faculty of Arts, Humanities and Cultures;
- Faculty of Biological Sciences;
- Faculty of Business;
- Faculty of Education, Social Sciences and Law;
- Faculty of Engineering (including the School of Computing);
- Faculty of Environment;
- Faculty of Mathematics and Physical Sciences;
- Faculty of Medicine and Health.

For more information about the University's faculties please visit:

<http://www.leeds.ac.uk/info/130500/faculties>



FACULTY OF ENGINEERING

The Faculty of Engineering – housing the Schools of Chemical and Process Engineering, Civil Engineering, Computing, Electronic and Electrical Engineering and Mechanical Engineering – is top 100 in the world for engineering and technology and one of the largest engineering groupings in the UK, with in excess of 700 staff and 3,500 students.

The Faculty's vision is to enhance industrial competitiveness and the quality of life through the integration of world-class research and education. This will be achieved by:

- encouraging, rewarding and promoting excellence to achieve and sustain international standing in higher education;
- investing in facilities to create world-class spaces for both student education and research;
- further growing recognised centres of research excellence;
- expanding innovation activities to ensure the maximum value is realised from all aspects of research and education.

The Faculty is committed to maintaining the highest standards of research, innovation and student education. Research feeds directly into teaching, ensuring that courses are at the forefront of thinking in their respective fields.

The range and scope of research is extensive and covers all of the major engineering disciplines, including cross cutting themes such as energy, materials, medical engineering and artificial intelligence, with theoretical, experimental and modelling work. This provides an ideal platform for multidisciplinary research, enabling high-impact research in areas recognised as providing critical global challenges.

Much of the Faculty's research is linked to industry, with major collaborators throughout the UK and Europe, aligned with industry sectors such as digital technologies, energy, high value chemicals and medical technologies in order to deliver impact and innovation.

There is a collegial atmosphere and student-focused approach to undergraduate and postgraduate education, with pride taken in the professionalism of staff and the quality of the research environment, promoting excellence by offering a range of cutting-edge programmes, many in conjunction with industrial sponsors and collaborators.

For more information about the Faculty of Engineering visit:

<https://engineering.leeds.ac.uk/>



SCHOOL OF ELECTRONIC AND ELECTRICAL ENGINEERING

The School of Electronic and Electrical Engineering has a long-standing reputation for research excellence and was the second-highest ranked electronic engineering school in the UK in the 2014 Research Excellence Framework (REF). Complementary to University wide success in the National Student Survey 2016, the School was positioned first out of all Russell Group universities, with 96 per cent overall student satisfaction for electronic engineering education. Leeds was recently placed third in the UK for Electronic and Electrical Engineering according to The Guardian University league table 2018.

Over the last 12 months the School has substantially expanded its academic staff base and research expertise by a series of strategic appointments at both Chair and early-career levels. Research activity has been reorganised into three research institutes: the Institute for Communication and Power Networks (ICaPNet); the Institute for Robotics, Autonomous Systems and Sensing; and the Institute of Microwaves and Photonics.

COURSE PROVISION

In addition to offering a number of undergraduate BEng and MEng degree programmes, the School provides a range of MSc programmes, many of which are accredited by the Institution of Engineering and Technology, across the following areas:

- Communications and Signal Processing
- Digital Communications Networks
- Electrical Engineering and Renewable Energy Systems
- Electronic and Electrical Engineering
- Embedded Systems Engineering
- Engineering, Technology and Business Management
- Mechatronics and Robotics.

For further information on the School of Electronic and Electrical Engineering visit:

https://engineering.leeds.ac.uk/info/20133/school_of_electronic_and_electrical_engineering



INSTITUTE FOR COMMUNICATION AND POWER NETWORKS

Under the leadership of Professor Jaafar Elmirghani, the Institute for Communication and Power Networks (ICaPNet), conducts research into the following principal areas:

- Communication networks and systems
- Electric power systems and applications

ICaPNet research in power systems and applications addresses important challenges and problems across the network hierarchy, from generation and conversion to transmission, distribution, and ultimately usage.

The Institute has developed a clear opportunity to work at the interface between communication networks and power networks, aiming to provide innovative, sustainable solutions for the energy industry which will help achieve a low-carbon future with a high level of security and affordable energy prices.

FACILITIES

ICaPNet facilities include a multi-million pound investment in test-beds for energy-efficient communication networks and internet-of-things networks, and a new smart grid prototype laboratory. Cross-faculty collaboration and industrial collaboration opportunities in energy research are facilitated by **Energy@Leeds**, an interdisciplinary centre with strong industry connections supported by a full-time business development manager.

For further information about ICaPNet visit:

<https://engineering.leeds.ac.uk/communication-power-networks>



ROLE DESCRIPTION

As Chair in Smart Energy Systems your main duties will include:

- Undertaking internationally leading research and inspirational teaching, taking a leadership role in translating excellence in research and scholarship into learning opportunities for students;
- Establishing and maintaining a high quality record of research output in leading internationally-recognised publications, whilst achieving sustained high levels of research funding individually and/or in collaboration with others;
- Inspiring students through research-led teaching on undergraduate and postgraduate taught courses, taking a lead role in the design, development and planning of modules and programmes and achieving high standards of student feedback;
- Professing and promoting the field of Smart Energy Systems nationally and internationally, winning prestige for both the discipline and the University;
- Developing and maintaining networks and promoting links with Research Councils and external organisations;
- Providing a major contribution to the strategic academic development, direction and leadership of the School, Faculty and University as well as making a significant contribution to the University through its governance structures and by representing the University externally;
- Supporting and mentoring less experienced academic and research staff to promote career development and the nurturing of academic talent;
- Attracting high quality postgraduate research students to the University and providing them with excellent supervision which supports timely completion and subsequent employability;
- Managing or leading 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.



PERSON SPECIFICATION

As a Chair in Smart Energy Systems you will have:

- A PhD in electronic/electrical engineering or any other relevant discipline;
- A demonstrable track record of sustained delivery of ambitious and imaginative research programmes, plus an excellent track record of research and publication in smart energy systems or a related field, meeting international standards of academic excellence;
- Evidence of a sustained record of the adoption of your research by other academic groups, industries, or end-users;
- A demonstrable sustained track record of securing substantial funding to support a research team and research activity;
- The demonstrable ability to work across subject areas, linking appropriately with other disciplines and research groups;
- The demonstrable ability to build, lead and develop research teams and multi-department/multi-university research consortia;
- International links and evidence of effective engagement with and influencing of national and international research agendas;
- Evidence of the willingness and capability to take on a significant leadership role in the Faculty/School;
- Evidence of an understanding of the principles of research-led teaching and a track record of integrating research with learning and teaching to deliver an excellent student experience;
- Evidence of the ability to design and deliver high quality taught programmes and modules in one or more of: electrical power systems, smart grid systems, renewable energy systems or electric vehicles;
- Demonstrable excellent organisational, interpersonal and communication skills.



APPLICATION AND APPOINTMENT PROCESS

An executive search exercise is being undertaken by Perrett Laver. Perrett Laver will support the University in helping to identify the widest possible field of qualified candidates and assisting in the assessment of candidates against the requirements for the role. Perrett Laver may be contacted for a confidential discussion of the role by contacting Daniel Mullen via Daniel.Mullen@perrettlaver.com or +44 (0)207 340 6263.

Applications should consist of a full CV detailing academic and professional qualifications, full employment history, latest remuneration and relevant achievements, and should be accompanied by a covering letter describing briefly how candidates meet the criteria, why the appointment is of interest and what they believe they can bring to the role.

This information can be uploaded at <https://candidates.perrettlaver.com/vacancies> quoting the reference number **2976**. The closing date for applications is **Friday 11th August 2017**.

Applications will be considered by the selection committee in late August. Provisionally shortlisted candidates will subsequently be invited for informal discussions with key University representatives. Following this, the University will agree upon a final shortlist of candidates to attend a formal interview in October. Selection of and negotiations with preferred candidates will take place thereafter.

ADDITIONAL INFORMATION

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

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.

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.