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HUMAN RESOURCES

JOB REF: ENGCV0020

UNIVERSITY OF LEEDS

Faculty of Engineering

Energy Technology and Innovation Initiative and School of Civil Engineering

CHAIR IN ENERGY FOR THE BUILT ENVIRONMENT

1. CONTEXT AND SUMMARY

1.1. This is part of a major strategic investment by the University to achieve an ambitious improvement in academic performance and enhanced student experience.

1.2. The University of Leeds is investing £15M towards energy education, research and innovation. The Energy Technology & Innovation Initiative (ETII) and the Institute for Resilient Infrastructure (iRI) in the School of Civil Engineering are working together in an Institute-wide initiative designed to help transform the global energy system to meet the needs of the future and to help improve today's energy systems.

1.3. The Faculty of Engineering as a part of this major investment wishes to appoint a number of world-leading Professors/teams to support its strategic growth in Energy. We are undertaking a search for a senior academic member in the field of energy for the Built Environment. The Chair will have the opportunity to work with the expanding Leeds energy research and educational programs in energy efficient building technology, Smart low carbon cities and engineering applied to the Built Environment.

1.4. The person appointed will:

1.4.1. deliver research-led education that contributes to an exceptional student experience;

1.4.2. deliver top quality research outputs that contribute to impact and innovation;

1.4.3. expect to take on a significant leadership role in the organisation in education and/or research;

1.4.4. provide leadership for new initiatives in energy in Built Environment that will integrate and build on existing programs at Leeds and initiate new research directions.

2. MAIN POSTHOLDER RESPONSIBILITIES

2.1. Undertake internationally leading research and inspirational teaching, taking a leadership role in translating excellence in research and scholarship into learning opportunities for students.

2.2. Profess and promote the discipline of Energy in Built Environment nationally and internationally, winning prestige for both the discipline and the University.

2.3. Provide a major contribution to the strategic academic development, direction and leadership of the School, Faculty and University.

2.4. Promote and help to deliver excellence in research and student education for the School and the highest standards of student experience.

2.5. Support and mentor less experienced academic and research staff to promote career development and the nurturing of academic talent.

3. RESPONSIBILITIES – STUDENT EDUCATION

3.1. Develop and support a project-based state-of-the-art UG/PGT renewable energy laboratory located in the new energy building to ensure that students have the opportunity to gain experience with an extensive range of facilities.

3.2 Develop and support project-based elective modules on renewable energy and energy in the Built Environment.

3.3. Inspire students through research-led teaching on undergraduate and postgraduate taught courses, achieving high standards of student feedback.

3.4. Provide a leading contribution to School and, as appropriate, Faculty policy and practice in teaching, promoting world class education and an exceptional student experience.

3.5. Take a lead role in the design, development and planning of modules and programmes.

3.6. Take a lead role in the review of modules and programmes and in quality assurance and enhancement processes within the subject area.

3.7. Develop innovative approaches to learning and teaching.

3.8 Provide high quality student support, acting as a personal tutor, supporting involvement in *Leeds for Life*, and working with students as members of a learning community to sustain 'The Partnership'.

4. RESPONSIBILITIES - RESEARCH, INNOVATION & IMPACT

4.1. Conduct world-leading research, focusing on the strategic development and implementation of the ETII/iRI's research interests. Research could address one or more of a number of areas related to the energy in the Built Environment.

4.2. Develop and lead excellent research, innovation and impact at national and international levels in areas such as urban design and energy performance, engineering applied to the Built Environment, infrastructure planning and implementation to achieve major energy objectives and creating passive and active engineering designs of energy efficient buildings and urban environments involving advanced technologies.

4.3. Establish and maintain a high quality record of research output in leading internationally-recognised publications.

4.4. Achieve sustained high levels of research funding individually and/or in collaboration with others and develop and maintain networks and promote links with Research Councils and external organisations.

4.5. Provide academic leadership and guidance to colleagues working within own research area and more widely across the School, Faculty and University, building research teams and promoting the development of a vibrant and sustainable research culture, community and environment in the School.

4.6. Attract high quality postgraduate research students to the University and provide them with excellent supervision which supports timely completion and subsequent employability.

4.7. Build and sustain relationships with external bodies to develop the School's innovation and impact agenda.

4.8. Promote the integration of research interests within the School, across the University and externally.

5. RESPONSIBILITIES - LEADERSHIP & MANAGEMENT

5.1. Make a dynamic, ambitious, energetic contribution to the development and delivery of the School's academic mission.

5.2. Provide a major input to the strategic academic development and direction of the School and the Faculty and to the academic leadership of the discipline.

5.3. Make a significant contribution to the University through its governance structures and by representing the University externally.

5.4. Manage or lead major initiatives and/or multidisciplinary areas of work, which improve School, Faculty or University performance.

5.5. Actively promote and engage with the University's People Management Framework (http://www.leeds.ac.uk/hr/development/pmf.htm) to ensure high standards of employment practices and staff management across the School.

5.6. 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.

5.7. Exercise leadership in alignment with the University Leadership and Management Standard (http://www.sddu.leeds.ac.uk/sddu-University-of-leeds-leadership-and-management-standard.html), ensuring that appropriate staff training and development is identified and undertaken.

5.8. Sustain own continuing professional development as a leader.

5.9. Maintain a safe and healthy work environment, including ensuring compliance with Health and safety legislation and the undertaking of appropriate risk assessments.

5.10. Comply with the University's financial and procurement procedures and regulations, undertaking relevant induction/training.

This job description provides a framework for the role and it may be necessary to undertake other duties commensurate with the post as might reasonably be required.

6. PERSON SPECIFICATION

Candidates will be expected to demonstrate appropriate levels of experience and skill to enable them to achieve the requirements of the job description. The following skills and abilities are essential in this context:

6.1. The candidate should be either an engineer/physical scientist with PhD or other doctorate in a relevant discipline or equivalent research experience or an expert from industry with in-depth knowledge of energy in built environment technology, and engineering.

6.2. Evidence 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, and an ability to lead the development a portfolio of modules.

6.3. Demonstrate ability to provide academic leadership in research both by own work and through the encouragement and stimulation of colleagues.

6.4. Evidence an excellent track record of research and publication meeting international standards of academic excellence, including a significant quantity of 3* and 4* REF equivalent published research.

6.5. Demonstrate a track record in the generation of significant research income from Research Councils and/or industry, and the development of sustainable research infrastructure. If the candidate has been substantially based in industry, he/she will need to demonstrate a track record in raising significant project funding and sustainable research infrastructure development, and have a knowledge of, and ideally personal experience with, research funding routes available to universities.

6.6. Demonstrate a track record in developing impact from his/her research, including ideally going beyond academic impact into aspects of social, economic, policy, or other impact areas.

6.7. Demonstrate a track record in translating junior academic staff successfully through the academic pipeline from PhD students, to post-doctoral researchers, and beyond.

6.8. Show international links and evidence of effective engagement with and influencing national and international research agendas.

6.9. Demonstrate a track record of effective team working and collaborative development, demonstrating the ability to work across subject areas and linking appropriately with other disciplines and research groups.

6.10. Demonstrate excellence in all aspects of the student education experience through first-class teaching, tutoring and practical supervision of research projects.

6.11. Track record of delivering CPD education in energy in built environment and project based teaching.

6.12. Evidence willingness and capacity to take on a significant role in Faculty/School development.

6.13. Demonstrate excellent organisational, communication and interpersonal skills and demonstrate a collegial approach.

6.14. Demonstrate ability to think laterally, to be imaginative and to anticipate trends and opportunities.

7. INFORMAL ENQUIRIES

Preliminary enquiries about the post may be made to:

Professor M. Pourkashanian
Head of Energy Technology and Innovation Initiative
Telephone: +44 (0)113 343 2512
E-mail: fue6mtz@leeds.ac.uk

or

Professor N. Smith
Head of the School of Civil Engineering
Telephone: +44 (0) 113 343 2301
E-mail: n.j.smith@leeds.ac.uk

8. HOW TO APPLY

To apply for this position, please complete both parts of the application process as detailed below.

Part 1

Your application should be sent to Leedschairs@leeds.ac.uk and should detail the position and job reference number in the subject box. An application should consist of:

- a covering letter detailing how you would envisage fulfilling the requirements of the post;
- your curriculum vitae;
- details of three referees including their email addresses where possible;
- any further information you feel would be relevant to your application.

Part 2

Please complete the following Equal Opportunities monitoring form (found **here**) and return it to the following email address: EOmonitoring@leeds.ac.uk

If you have any queries regarding this process, please contact David Brett, Senior Staff Recruitment & Administration Officer on 0113 343 5775 or at d.j.brett@adm.leeds.ac.uk

9. FURTHER INFORMATION

Details of the terms and conditions of employment for all staff at the university, including information on pensions and benefits, are available on the Human Resources web pages accessible at www.leeds.ac.uk/hr/index.htm

Criminal Record Disclosures

A Criminal Records Disclosure is not required for this position. However, applicants who have unspent convictions must submit a separate document with full details of any unspent criminal convictions or any criminal proceedings that are pending against you.

On this document, please state clearly your full name, the job reference number and the job title of the post for which you are applying.

This document should either be sent in an envelope marked 'Private and Confidential' or emailed to the Recruitment Officer, whose contact details are shown below:

E-mail: disclosure@leeds.ac.uk

Postal address: The Recruitment Officer, Human Resources, E C Stoner Building, University of Leeds, Woodhouse Lane, Leeds LS2 9JT

Telephone: +44 (0)113 343 1723
This information will only be considered if your application is shortlisted; if you are unsuccessful at this stage, then the information will be destroyed. If you declare a conviction, this will not necessarily prevent you from being offered a position at the University.

Right to work

Under Home Office UK Border Agency regulations, employers who wish to appoint a worker from overseas who do not already hold the right to work in the UK under an immigration category, including those holding Tier 2 certificate status (as these are not transferrable between organisations) are required to demonstrate that they are unable to

recruit a resident worker. Applications from candidates that require Tier 2 immigration status to work in the UK are encouraged and will be considered alongside all other applications. Non-EEA candidates may not be appointed to a post if a suitably qualified, experienced and skilled EU/EEA candidate is available to take up the post as the employing body is unlikely, in these circumstances, to satisfy the Resident Labour Market Test. For further information please visit the Home office UK Border Office: (http://www.ukba.homeoffice.gov.uk/)

Disabled Applicants

Disabled applicants wishing to review building access are invited to contact the department directly. Additional information may be sought from the Recruitment Officer, email disclosure@leeds.ac.uk or tel + 44 (0)113 343 1723.

Disabled applicants are not obliged to inform employers of their disability but will still be covered by the Equality Act once their disability becomes known.

Further information for applicants with disabilities, impairments or health conditions is available in the applicant guidance.

Data Protection

The information you provide in your application will be used to consider your suitability for the post you have applied for. If your application is not successful, the information will be disposed of confidentially within 9 months. If your application is successful and you are appointed, your information and future data will be processed in accordance with the University's Data Protection Code of Practice. A copy of this code can be obtained from either the University of Leeds Human Resources Department or by visiting:

http://www.leeds.ac.uk/hr/policy/terms.htm

References

It is the custom of this University to approach the referees of only those candidates who are invited to interview. Applicants are asked, therefore, to indicate clearly if they do not wish such approaches to be made.

Selection Process

Formal interviews are scheduled to take place on Wednesday 9 May 2012. Preliminary interviews will be held before this date (date to be confirmed).

10. SCHOOL AND FACULTY INFORMATION

School of Civil Engineering

The School of Civil Engineering is one of five schools which make up the Faculty of Engineering at the University of Leeds. The School has an established track record of high quality research in two research institutes:

Institute for Resilient Infrastructure (iRI) that includes researchers in Structures, Materials, Geotechnics, Architectural Engineering, and Engineering Project Management;

Pathogen Control Engineering Institute (PaCE) that undertakes research in all aspects of the Built Environment in which the presence of pathogens influences design, including water treatment, solid waste and airborne transmission of disease.

Research activity takes places across many different faculties and universities. The School has a strong reputation for pioneering collaborative research and current partners include Water@ Leeds, Leeds University Business School, Leeds Sustainability Research Institute (SRI), Faculty of Biological Sciences, Earth & Environment, **Energy Technology and Innovation Initiative (ETii)** , and the Institute of Transport Studies.

Research feeds directly into the School's teaching, which means our students learn about the latest developments in the field from world-class academics. In fact, the School has recently been ranked number 1 for student satisfaction in the UK for civil engineering according to the latest National Student Survey.

With 40 academic and research staff and nearly 700 students the School is a major player in the field of civil engineering.

Faculty of Engineering Information

The Faculty of Engineering is one of the largest faculties at the University of Leeds, and one of the largest engineering groupings in the UK; having over 700 staff, 3,000 students and an annual turnover of around £60m.

Our vision is that the Faculty of Engineering will be ranked in the top 5 in the UK and the top 50 in the world by 2015, contributing to enhancing industrial competitiveness and the quality of life through the integration of our world-class research and education.

A critical part of our vision is the recruitment and retention of excellent staff. We are committed to all aspects of staff development and to recognising and rewarding excellence and commitment.

Within the Faculty of Engineering our approach is to:

- encourage, reward and promote excellence to achieve and sustain our international standing in higher education;
- invest in our facilities to create world-class spaces for both student education and research;
- further grow our recognised centres of research excellence; and,
- expand our innovation activities to ensure the maximum value is realised from all aspects of our research and education activities.

The Faculty is currently ranked 7th in the UK for the quality of its research (latest Research Assessment Exercise); with 75% of the Faculty's research rated as internationally excellent or world leading.

As a member of the 'Russell Group' of leading UK research-intensive universities we are committed to maintaining the highest standards of research, innovation and student education. Our research feeds directly into our teaching ensuring that our courses are at the forefront of thinking in their respective fields.

The range and scope of our research is extensive and covers all of the major engineering disciplines – civil, mechanical, electronic and electrical, chemical engineering and computer science – including cross cutting themes such as energy,

materials, medical engineering and artificial intelligence, with theoretical, experimental and modelling work underpinning all areas.

The breadth of our research portfolio provides an ideal platform for multidisciplinary research, enabling us to undertake high-impact research in areas recognized as providing critical global challenges. Much of our 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.

The Faculty benefits from our existing excellent facilities, supported by an ambitious multi-million pound programme of investment in both staff and facilities over the next 10 years.

Two thirds of our 3000 students are undergraduates with the rest split evenly between taught masters and research degrees. The Faculty attracts staff and students from all around the world; one third of students are from outside the UK and representing over 90 different nationalities. Our focus is on providing research-led teaching and supervision, inspiring our students and through this helping them to achieve their goals and ambitions.

There is a friendly atmosphere and student-focused approach to undergraduate and postgraduate education. We pride ourselves on the professionalism of our 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.