

Research Fellow in Wind Energy

Department	Electronic and Electrical Engineering (www.strath.ac.uk/eee/)		
Faculty	Faculty of Engineering (www.strath.ac.uk/engineering/)		
Staff Category	Research	Reference No	88943
Reports To	Professor W E Leithead	Grade:	8*
Salary Range:	£39,992 - £49,149	Contract Type:	Fixed Term (12 months)
FTE:	1 (35 hours/week)	Closing Date	Monday, 23 October 2017

Job Advert

The Department of Electronic and Electrical Engineering seeks to recruit a Research Fellow to join the Wind Energy and Control Centre (WECC). With more than 70 researchers, WECC undertakes internationally leading research in Wind Energy through EPSRC, EU and industry funded projects, including the EPSRC Centre for Doctoral Training in Wind Energy and Marine Systems (CDT), which is hosted by Strathclyde University, and the EPSRC Wind Energy Hub.

There is now high penetration of wind energy into the UK electricity grid with a total UK installed capacity of 9GW onshore wind and 5GW offshore wind. With the very high levels of investment involved, there is an imperative for the operators to manage these assets optimally. Advanced O&M strategies can facilitate this requirement. A Research Fellow is therefore sought to consolidate and grow O&M, remaining useful life and failure prediction research in WECC. The Research Fellow will contribute to the training programme within the CDT and to the MSc in Wind Energy Systems run by the Department. Experience in O&M, remaining useful life and failure prediction research is essential and, since research in this area is highly dependent on securing access to data, experience of working in and/or established links to the wind energy industry would be an advantage.

As a Research Fellow, you will engage as an independent researcher and establishing a distinctive programme of research and disseminate results through regular publications in high impact journals, books and conference proceedings. You will apply, as Principal Investigator and/or Co-Investigator, to appropriate external bodies for research funding and manage grants awarded. You will manage a research team (students and staff), providing direction, support and guidance and you will participate in and develop external networks to foster research collaborations, to inform the development of research objectives and to identify potential sources of funding. You will develop knowledge exchange activities by, for example, establishing research links with industry and influencing public policy and the professions and you will collaborate with colleagues to ensure that research advances inform departmental teaching effort, including contributing to relevant teaching programmes as appropriate. You will carry out Department/School, Faculty and/or University administrative and management functions, for example through membership of committees and engage in continuous professional development

To be considered for the role, you will be educated to PhD level. You will have an ability to plan and organise research programmes, to ensure successful completion and you will have experience of planning and organising workloads, including the ability to supervise and delegate work. You will have some experience of teaching at undergraduate and/or postgraduate levels, an ability to work within a team environment and to lead teams and excellent interpersonal and communication skills, with the ability to listen, engage and persuade, and to present complex information in an accessible way to a range of audiences.

Whilst not essential for the role, applications are welcomed from candidates with: membership of relevant Chartered/professional bodies (including the Higher Education Academy), experience of multi/inter-disciplinary research, experience of student assessment activities and/or a track record in knowledge exchange related activities.

* Whilst a Research Fellow is ideally sought for this position, applications from candidates with developing leadership and research independence, are welcome. In such circumstances, the appointment will be made at Research Associate level (RS07 salary scale £31,604 - £38,883) and duties will be adjusted to reflect the grade of the post.

Job Description

Brief Outline of Job:

To pursue and establish an independent and high quality research programme in O&M, remaining useful life and failure prediction, including securing research contracts and funding; to disseminate research results via publications in peer reviewed journals; where appropriate, to manage a research team (staff and students); to engage as appropriate in relevant teaching, professional and knowledge exchange activities; and to carry out administrative tasks assigned by the Head of Department/School.

Main Activities/Responsibilities:

1.	Engage as an independent researcher in individual and collaborative research in the area of O&M, remaining useful life and failure prediction in the Wind Energy and Control Centre. Establish a distinctive programme of research and disseminate results through regular publications in high impact journals, books and conference proceedings.
2.	Apply, as Principal Investigator or Co-Investigator, to appropriate external bodies for research funding and manage grants awarded.
3.	Provide direction, support and guidance to PhD students and other researchers.
4.	Develop links to the Wind Energy industry to gain access to data, to ensure that research is well aligned with industry needs and priorities and facilitate knowledge exchange activities.
5.	Develop national and international research collaborations in Wind Energy.
6.	Contribute to the training programme in the CDT in Wind and Marine Energy Systems and the MSc in Wind Energy Systems including lectures on topics related to O&M of wind turbines.
7.	Support the operation of the Wind Energy and Control Centre and the CDT in Wind and Marine Energy Systems participating in their management committees.
8.	Engage in continuous professional development.

Person Specification

Educational and/or Professional Qualifications

(E=Essential, i.e. a candidate must meet all essential criteria to be considered for selection, D=Desirable)

E1 Good honours degree and PhD (or, exceptionally, equivalent professional experience) in appropriate discipline

D1 Membership of relevant Chartered/professional bodies (including Higher Education Academy)

Experience

E2 Substantial experience of research in O&M, remaining useful life and failure prediction of wind turbines

E3 Experience in wind turbine failure and RUL prediction

E4 Experienced user of MATLAB

E5 Experience of teaching at undergraduate and/or postgraduate levels

E6 Experience of planning and organising workload, including the ability to supervise and delegate work

D2 Experience of multi/inter-disciplinary research

D3 Experience of student assessment activities

D4 Experience of FAST/GL Bladed

Job Related Skills and Achievements

E7 A body of published research in high quality publications demonstrating standards of excellence

E8 Ability to develop research proposals and to attract funding and research students, as appropriate to the discipline, including experience of contributing to grant applications

E9	Ability to plan and organise research programmes to ensure successful completion
E10	Ability to work within a team environment and to lead teams
Track record in knowledge exchange related activities	
D5	Strong IT skills including working with Microsoft software to an intermediate level (inc Word, Excel, PowerPoint, Outlook, and Project)
Personal Attributes	
E11	Excellent interpersonal and communication skills, with the ability to listen, engage and persuade, and to present complex information in an accessible way to a range of audiences

Application Procedure

Applicants are required to complete an application form including the name of three referees who will be contacted before interview without further permission, unless you indicate that you would prefer otherwise. Applicants should also submit a Curriculum Vitae and a covering letter detailing the knowledge, skills and experience you think make you the right candidate for the job. Applicants should also complete the Equal Opportunities Monitoring Form.

Other Information

Further information on the application process and working at Strathclyde can be found on our website (<http://www.strath.ac.uk/hr/workforus>).

Informal enquiries about the post can be directed to Professor W E Leithead, Head of Wind Energy and Control Centre (e-mail: w.leithead@strath.ac.uk, Tel: 01415482378).

Conditions of Employment

Conditions of employment relating to the Research staff category can be found at: [Conditions of Employment](#).

Pre-employment health screening

An offer of appointment will be subject to a medical assessment by Occupational Health. An individual who accepts an offer of employment must complete a confidential medical questionnaire and forward it to the Occupational Health Nurse within 5 days of receipt. If further information is required the individual may be contacted by the OHN or a Medical Advisor and a personal appointment with the individual may be arranged. An unconditional contract of employment will not be issued until Human Resources receives confirmation that applicant is fit to undertake the duties of the post.

Probation

Where applicable, the successful applicant will be required to serve a 12 month probationary period.

Pension

The successful applicant will be eligible to join the Universities' Superannuation Scheme. Further information regarding this scheme is available from [Payroll and Pensions](#).

Relocation

Where applicable, the University offers a relocation package to support new employees who meet the eligibility criteria. The relocation package is offered as a contribution towards costs incurred, and is designed to be flexible, allowing staff to use the financial support available in the way that will be most helpful to them. Further details are outlined in the Relocation Policy.

Interviews

Formal interviews for this post will be held only from 2.00 pm-5.00 pm on Monday, 30 October 2017.

Equality and Diversity

We value diversity and welcome applications from all sections of the community.

The University currently holds a Bronze Athena SWAN award, recognising our commitment to advancing women's careers in science, technology, engineering, maths and medicine (STEMM) employment in academia.

