1 Advertisement

Post Title: Lecturer in Engineering
School/department: School of Engineering and Informatics/Department of Engineering and Design
Hours: Full time. Requests for flexible working options will be considered (subject to business need)
Contract: Permanent
Reference: 3349
Salary: starting at £33,797 and rising to £40,322 per annum
Placed on: 13 March 2020
Closing date: 15 April 2020. Applications must be received by midnight of the closing date.
Expected start date: 01 July 2020

The Department of Engineering and Design within the School of Engineering and Informatics at the University of Sussex wishes to appoint a lecturer in Electronic Engineering.

The successful applicant will join the Sensor Technology Research Centre led by Professor Daniel Roggen. A main area of activity of the Centre is in Wearable Technologies and the appointed candidate will be expected to contribute to expanding this research area. The Centre is interested in developing activities in wearable sensing (e.g. embedded sensing, flexible and textile electronics), new sensor technologies, embedded processing, in particular embedded machine learning and AI (e.g. to analyse wearable sensor data), new wearable communication technologies, applications of wearable technologies (e.g. in healthcare, HCI, sports) and other areas.

The successful candidate will have research interests in one or more of the following areas: analogue or digital electronics, embedded systems, embedded intelligence (edge AI), system on a chip, wearable technologies, sensor technologies, MEMS, novel electronics (e.g. flexible, textile). We encourage applicants who see themselves able to contribute to the research activity of the Centre to apply, even if their research interest may not be listed here.

The successful applicant will be responsible for devising and delivering teaching at both undergraduate and postgraduate levels for the Department in our electrical/electronic engineering and electrical/electronic engineering with robotics courses including teaching in our Trans National Education programmes abroad.

Applications should be accompanied by a full CV, and statements of future research plans and ways in which the applicant could contribute to teaching across the Department. Informal enquiries may be addressed to Dr Romeo Glovnea, the Head of Department (r.p.glovnea@sussex.ac.uk).
For full details and how to apply see our [vacancies page](http://www.sussex.ac.uk/vacancies).

*The University of Sussex values the diversity of its staff and students and we welcome applicants from all backgrounds.*

2. **The School / Division**

Please find further information regarding the Department of Engineering and Design at [http://www.sussex.ac.uk/engineering/](http://www.sussex.ac.uk/engineering/).

3. **Job Description**

**Job Description for the post of:** Lecturer A in Engineering

**Department:** Engineering and Design

**School:** Engineering and Informatics

**Location:** Falmer Campus, Brighton

**Grade:** 7

**Responsible to:** Head of Department/Head of School

**PRINCIPAL ACCOUNTABILITIES**

1. To deliver and contribute to the design of high-quality teaching programmes to attract students.

2. To engage in individual and/or collaborative research activity resulting in high-quality publications to be submitted to the REF at acceptable levels of volume and academic excellence; and develop research funding and knowledge exchange income individually or in collaboration with others, as appropriate, depending on the size and scope of the bid.

3. To contribute fully to the Department, School and University by participating in meetings, working groups, committees and other Department, School and University activities.

**Key responsibilities**

1. **Teaching & Student Support**

1.1 Contribute to the planning, delivery and assessment of high-quality undergraduate and postgraduate teaching, in liaison with the relevant programme and course convenors.

1.2 Contribute to the development, design and management of new curriculum proposals that are attractive to students.
1.3 With guidance: develop high-quality inclusive teaching materials, methods and approaches using appropriate technology; take responsibility for their quality, and ensure that they meet defined learning objectives.

1.4 With guidance: set, mark, and assess coursework and examinations; select appropriate assessment instruments and assessment criteria; and provide constructive and comprehensive feedback to students.

1.5 Ensure that teaching materials remain up-to-date and relevant, incorporating advances in the subject area into the course of study.

1.6 Develop and maintain an understanding of appropriate pedagogy in the subject area.

1.7 Supervise the work of undergraduate and taught postgraduate students, providing them with advice on study skills.

1.8 Undertake and complete administrative duties required in the professional delivery of teaching.

1.9 Undertake academic advising duties, and provide first-line support for sensitive issues, referring on as appropriate to services providing further assistance.

1.10 Adopt an approachable and accessible attitude towards students, offering office hours, informal advice etc.

2. **Research, Scholarship & Enterprise**

2.1 Develop research objectives and proposals for own or joint research, at acceptable levels, with assistance if required.

2.2 Conduct research projects individually and/or in collaboration with others.

2.3 Analyse and interpret research findings and draw conclusions on the outcomes.

2.4 Produce high-quality research outputs for publication in monographs or recognised high-quality journals, or performance/exhibition, as appropriate, and contribute to the School’s REF submission at acceptable levels of volume and academic excellence.

2.5 Make research funding applications as appropriate, with assistance if required.

2.6 Individually or with colleagues, explore opportunities for enterprise activity, third stream income and/or consultancy.

2.7 Build internal contacts and participate in internal networks and relevant external networks in order to form relationships and collaborations.

2.8 Supervise doctoral students as part of a supervision team, as appropriate to the discipline.
2.9 Continually update knowledge and understanding in field or specialism, and engage in continuous professional development.

3. Contribution to School & University

3.1 Attend and contribute to School meetings.

3.2 Engage in activities beyond day-to-day teaching duties, for example Admissions Days.

3.3 Assist with undergraduate and postgraduate recruitment.

3.4 Participate in School or University working groups or committees, as required.

3.5 Undertake additional administrative duties, as required by the Head of School.

INDICATIVE PERFORMANCE CRITERIA

▪ High quality teaching performance across a range of teaching activities, at different levels (year 1 undergraduate to postgraduate) appropriate to the discipline; as evidenced by surveys, questionnaires and peer review.

▪ Evidence of skill in assessment and feedback techniques, and using a range of methods for evaluating the effectiveness of teaching.

▪ Demonstrable contribution to the planning and development of courses.

▪ Delivering a teaching load in line with Department and School expectations.

▪ Evidence of applying knowledge arising from research and scholarship to enhance teaching practice.

▪ Evidence of active engagement in advising students and proactively responding to problems experience by students.

▪ Completion, within a reasonable period of time, of a recognised higher education teaching qualification.

▪ Pursuing a line of high-quality independent scholarly research appropriate to the discipline.

▪ Publishing research.

▪ Success in obtaining competitive/peer reviewed research support funding or collaboration in significant research projects with institutions of equivalent standing.

▪ Other forms of externally recognised professional practice or creative output, of a standing equivalent to regular publication of original research.
- Initiating, developing or participating in links between the University and external bodies such as business and industry, the professions, community organisations and policy-makers.

- Evidence of successful engagement in PhD supervision as appropriate to the discipline.

- Efficient and effective contribution to academic support duties within the School or the University.

This Job Description sets out current duties of the post that may vary from time to time without changing the general character of the post or level of responsibility entailed.

**Person Specification**

**ESSENTIAL CRITERIA**

1. Educated to doctoral level, or other equivalent qualification, as appropriate to the discipline (see role-specific criteria below).

2. Excellent interpersonal skills, with the ability to engage with students using a variety of teaching methods.

3. We look for a candidate who is in early stages of their teaching in academia with some experience of teaching or delivering professional training.

4. Excellent presentation skills, with the ability to communicate effectively, both orally and in writing, with students, colleagues and external audiences.

5. Ability to work individually on own initiative and without close supervision, and as part of a team.

6. Ability to exercise a degree of innovation and creative problem-solving.

7. Excellent organisational and administrative skills.

8. Ability to prioritise and meet deadlines.

9. A willingness to participate in student support activities beyond required teaching duties.

10. Excellent IT skills, with the ability to produce high-quality, inclusive learning materials.

**ESSENTIAL ROLE-SPECIFIC CRITERIA**

1. A minimum of three years post-doctoral experience in the field of sensors, wearable technologies, embedded systems, embedded intelligence, novel electronics, MEMS, or other areas, in a highly – ranked university.
2. Experience of practical/hands-on work in sensors and embedded systems.

3. Experience in research as evidenced by high-quality publications and international conference participation.

DESIRALBE CRITERIA

1. A recognised higher education teaching qualification.

2. Relevant experience with industry-oriented research would be desirable.

3. Experience of teaching in higher education.

4. Membership of a professional body

5. Experience of collaborating in EU/UKRI funded projects working as part of a consortium.

The University is committed to equality and valuing diversity, and applications are particularly welcomed from women and black and minority ethnic candidates, who are under-represented in academic posts in Science, Technology, Engineering, Medicine and Mathematics (STEMM) at Sussex.