



## THE POST

<b>College:</b>	<b>EMPS</b>
<b>Post:</b>	<b>Associate Research Fellow</b>
<b>Reference No:</b>	<b>P42306</b>
<b>Grade:</b>	<b>E</b>
<b>HERA:</b>	<b>ARF</b>
<b>Reporting To:</b>	<b>Dr Harish Bhaskaran</b>

The above new fulltime post is available from 1 October 2011 until 30 September 2013 in the College of Engineering Mathematics and Physical Sciences.

### Job Description

#### Main purpose of the job:

To conduct research on a novel project on nanoelectromechanical systems based on phase change materials, and support the research of Harish Bhaskaran, the University of Exeter seeks a highly motivated and independent early-stage scientist to join this exciting and potentially high-impact endeavor.

#### Main duties and accountabilities:

1. To undertake research as appropriate to the field of study including:
  - Writing up research work for publication;
  - Developing research objectives and proposals for own or joint research;
  - Making presentations at national and international conferences and similar events;
  - Dealing with problems which may affect the achievement of research objectives and deadlines;
  - Analysing and interpreting the results of own research and generating original ideas based on outcomes;
  - Using new research techniques and methods;
  - Using initiative and creativity to identify areas for research, developing new research methods and extending the research portfolio;
  - Using creativity to analyse and interpret research data and draw conclusions on the outcomes.
2. To contribute to teaching and to be involved in the assessment of student knowledge including assisting in the supervision of student projects and in the development of student research skills.
3. To work in collaboration with colleagues as appropriate to the field of study including:
  - Contributing to collaborative decision making within the research group;
  - Contributing to the production of collaborative research reports and publications.
  - Preparing papers and presenting information on research progress and outcomes to bodies supervising research, e.g. steering groups.
4. To communicate complex information, orally, in writing and electronically.
5. To prepare proposals and applications to external bodies, e.g. for funding and contractual purposes
6. To contribute to the planning of research projects.

7. To use research resources, laboratories and workshops as appropriate and to take responsibility for conducting risk assessments, reducing hazards and for the health and safety of others.
8. To monitor research budgets as appropriate.
9. To engage in continuous professional development and to be responsible for continually updating knowledge and understanding in field of study or specialism and for developing skills.

This job description summarises the main duties and accountabilities of the post and is not comprehensive: the post-holder may be required to undertake other duties of similar level and responsibility. Please visit the Human Resources website to view the Research Fellow role profiles.

### **Person Specification**

<b>Competency</b>	<b>Essential</b>	<b>Desirable</b>
Attainments/Qualifications	PhD or equivalent in a related field of study.	Experience with RF MEMS or NEMS, Cleanroom fabrication experience, Evidence of building experiments
Skills and Understanding	Sufficient knowledge in the discipline and of research methods and techniques to work within established research programmes.	Evidence of research activity and published research.
Prior Experience	Experience of conducting risk assessments and understanding of health and safety legislation	Experience of undergraduate teaching
Behavioural Characteristics	Excellent written and verbal communication skills. Able to communicate material of a specialist or highly technical nature. Able to manage research and administrative activities and to balance the competing pressures of research and administrative demands and deadlines. Able to liaise with colleagues and students. Able to build contacts and participate in internal and external networks for the exchange of information and collaboration. Able to identify potential sources of funding. Actively participate as a member of a research team Engage in continuous professional development. Understand equal opportunity issues as they may impact on areas of research content	
Circumstances		

### **Informal Enquiries**

Before submitting an application you may wish to discuss the post further by contacting Dr Harish Bhaskaran, telephone (01392 72 5820) or email [h.bhaskaran@exeter.ac.uk](mailto:h.bhaskaran@exeter.ac.uk).