UNIVERSITY OF EXETER

THE POST

College/Service: **College of Engineering, Mathematics and Physical Sciences**

Post: **Lecturer (Education and Research) in Mathematics and/or Computer Science**

Reference No: **P60325**

Grade: **F**

Reporting To: **Pro Vice Chancellor (PVC)**

Job Description

Main duties and accountabilities

1. To fulfil research, teaching and administration duties as a lecturer in Scientific Computing, Computer Science, and/or Computational Mathematics.

2. To extend the research profile of Computer Science and Mathematics and related areas, especially in the area of High Performance Computing, Computer Architectures, Numerical Analysis & Solvers, attracting and supervising postdoctorate researchers and postgraduate research students. To develop a new seminar series in Scientific Computing and/or High Performance Computing.

3. To collaborate with colleagues both within the College and the University of Exeter as a whole in order to develop and support Scientific Computing research programmes and the College's research programme.

4. To contribute to the general operation of the College as a member of its academic team.

Research

1. To conduct independent research and act as principal investigator and project leader, and in so doing:

   Enhance the College's international reputation through research publications of appropriate quantity and quality, and contribute to worldwide debate at national and international conferences, and

   Win research earnings through carefully prepared and successful grant applications as well as identifying potential income-generating programmes and collaborative partnerships.

2. To supervise research projects, managing any dedicated research staff and postgraduate research students, and provide the mentorship to enable staff and students to develop their skills and academic careers.

3. To help promote a collegiate working atmosphere and stimulating environment that will attract further research staff of the highest quality as well as good postgraduate research students.

4. To contribute to the further and ongoing development of Scientific Computing research at Exeter, especially the area of High Performance Computing, Computer Architectures, Numerical Analysis & Solvers.

Teaching

To deliver mainly undergraduate courses to appropriate academic standards such that:

1. Knowledge acquired from research translates to teaching
2. Students are challenged but also tutored and supported with individual care
3. Teaching and learning techniques are innovative and inspiring
4. Students are supervised appropriately
5. Assessment criteria are appropriate, and fairly applied with results fed back to students appropriately
6. Module content is continuously reviewed to identify areas for improvement

General

To contribute to the overall general and academic management in the College by undertaking activities that may be required such as:

1. Developing overall academic content and structure of modules with colleagues
2. Developing ideas for generating income and promoting both the College in general and Computer Science and/or Mathematics in particular High Performance Computing
3. Supporting admissions processes and procedures
4. Supporting examinations processes and procedures
5. Contributing to the work of College committees
6. Contributing to accreditation and quality control processes
7. Contributing to strategic planning

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.

Person Specification

The successful applicant will have an independent research programme that will strengthen and complement the existing team at the University. He/she will be able to demonstrate the following qualities and characteristics:

1. PhD (Optional or nearing completion) or equivalent in Mathematics, Computer Science, or related areas.
2. Sufficient knowledge of High Performance Computing and Computational Mathematics to develop teaching and research programmes
3. A strong record in attracting research funding, or demonstrable potential to attract such funding.
4. Teamwork skills to work in collaboration with existing group members
5. An active and supportive approach to inter-disciplinary and multi-disciplinary research that will help to foster interactions and links both within the University and externally with other educational bodies, professional institutions and employers
6. The attitude and ability to engage in continuous professional development
7. The aptitude to develop familiarity with a variety of strategies to promote and assess learning
8. Enthusiasm for delivering undergraduate programmes

Terms & Conditions
Our Terms and Conditions of Employment can be viewed here.

Further Information
Please see our website for further information on working at the University of Exeter.