Candidate Information

Position: Research Fellow , EEECS
School/Department: School of Electronics, Electrical Engineering and Computer Science
Reference: 18/106796
Closing Date: Tuesday 23 October 2018
Salary: £33,199 - £39,610 per annum (potential to progress to £43,266 per annum through sustained exceptional contribution)

JOB PURPOSE:

MAJOR DUTIES:

1. Undertake a specific role in the relevant research project under supervision.
2. Take responsibility for and lead parts of the planned research.
3. Plan and execute research actions to meet the project goals.
4. Plan and develop an area of personal research and expertise in an area related to the post.
5. Design, develop and refine experimental system software, and conduct research experiments with this software in order to obtain reliable data.
6. Carry out analyses, critical evaluations, and interpretations using methodologies and other techniques appropriate to experimental computing systems research.
7. Present regular progress reports on research to members of the research group or to external audiences to disseminate and publicise research findings.
8. Contribute to dissemination of research findings for publication in national and international journals and presentations at international conferences.
9. Assist grant holder in the preparation of funding proposals and applications to external bodies.
10. Carry out routine administrative tasks associated with the research project/s to ensure that project/s are completed on time and within budget.
11. Carry out occasional undergraduate (final year, MEng) project supervision, demonstrating or lecturing duties within the post holder's area of expertise and under the direct guidance of a member of academic staff.
12. Read academic papers, journals and textbooks to keep abreast of developments in own specialism and related disciplines.

Planning and Organising:

1. Plan for project deliverables in timescales ranging from three to twelve months in advance and contribute to research group planning.
2. Plan for the use of research resources, laboratories and workshops where appropriate.
3. Plan own day-to day activity within framework of the agreed research programme.
4. Plan up to a year in advance to meet deadlines for journal publications and to prepare presentations and papers for conferences.
5. Coordinate and liaise with other members of the research group over work progress.

Resource Management Responsibilities:

1. Configure, install and upgrade experimental computing facilities, including servers, networking equipment and storage systems, along with the necessary software libraries.
2. Ensure research resources are used in an effective and efficient manner.
3. Provide guidance as required to support staff and any students who may be assisting with research.

Internal and External Relationships:

1. Liaise on a regular basis with colleagues and students in the research group, the ECIT Institute, the School of EEECS and other faculties in Queen's University Belfast to build research collaborations.
2. Join external international networks such as HiPEAC, ETP4HPC, and PRACE for training and sharing information and ideas.

ESSENTIAL CRITERIA:
1. Must have or be about to obtain a relevant PhD in Computer Science, Computer Engineering, or a related field.
2. At least 3 years of research experience in low-level programming.
3. Ability to contribute to research management and administrative processes.
4. Ability to contribute to the School's outreach programme by links with industry, community groups etc.
5. Sufficient breadth and depth of specialist knowledge in the discipline and of research methods and techniques to work within established research programmes.
6. Ability to communicate complex information clearly.
   Ability to build contacts and participate in internal and external networks.
7. Demonstrable intellectual ability.
8. Ability to assess and organise resources.
9. Ability to travel and present at international conferences and meetings.

DESIRABLE CRITERIA:
1. Experience in development or extension of operating systems, hypervisors, programming language implementation, compilers or runtime systems.
2. Experience in EU or RCUK projects, in particular in project task management and reporting through periodic deliverables.
   Experience working with external industrial or academic partners.
3. Experience in working in collaborative software development and/or managing software development teams.
4. Experience in producing timely technical documentation on research projects (deliverables, reports).
5. Experience with presentations of research outputs in conferences, workshops, or seminars.