Research Centre          The Rince Institute
Post title              Postdoctoral Researcher in Photonic Systems
Level on Framework      Level 1
Post duration           Fixed Term Contract up to 36 Months

Research Career Framework

As part of this role the researcher will be required to participate in the DCU Research Career Framework. This framework is designed to provide significant professional development opportunities to Researchers and offer the best opportunities in terms of a wider career path.

Overview

The Rince Institute in DCU engages in research in Information and Communication Technologies (ICT) and related fields, bringing an engineering perspective to this research.

Background & Role

The Rince Institute is seeking to appoint a highly motivated Postdoctoral Researcher to undertake leading edge research in the domain of high speed optical communication systems. The successful applicant will join a multidisciplinary institute to work in liaison with current researchers on the development of fast reconfigurable optical networks for data centre applications employing tuneable laser technology. This research programme is part of a collaborative project with academic partners in Ireland and the USA, and the successful applicant will be expected to spend time working in the collaborating partner institutions.
Principal Duties and Responsibilities

Reporting to his/her Principal Investigator the Postdoctoral Researcher will:

- Conduct a specified programme of research under the supervision and direction of the Principal Investigator. The programme of research will involve developing high capacity optical switching technologies for future data centre applications, by employing wavelength tuneable lasers and advanced modulation formats.
- Assist in identifying and developing future research and funding initiatives.
- Engage in the dissemination of the results of the research in which he/she is engaged with the support of and under the supervision of the Principal Investigator.
- Assist with the supervision of PhD students, researchers, internship students, and project students working in the area of photonic systems.
- Engage in appropriate training and development opportunities as required by the Principal Investigator, the School or Research Centre, or the University.
- Engage in teaching and teaching support as assigned by the Head of School under the direction of the Principal Investigator.
- Liaise with both internal and external stakeholders including industry and academic partners/collaborators.
- Carry out administrative work associated with the programme of research as necessary.

Minimum Criteria

Applicants should have a PhD in Physics or Electronic Engineering. In addition, it is required that the candidate has relevant postdoctoral experience in a number of the following areas:

- Reconfigurable optical networks
- Coherent optical communication systems
- Optical switching for data centres
- Fast tuneable lasers
- Experimental test-beds for photonic systems

Salary:  €37,750 - €46,255

Closing date:  Monday October 12th, 2015

Candidates will be assessed on the following competencies:

Discipline knowledge and Research skills – Demonstrates knowledge of a research discipline and the ability to conduct a specific programme of research within that discipline.

Understanding the Research Environment – Demonstrates an awareness of the research environment (for example funding bodies) and the ability to contribute to grant applications.

Communicating Research – Demonstrates the ability to communicate their research with their peers and the wider research community (for example presenting at
conferences and publishing research in relevant journals) and the potential to teach and tutor students.

**Managing & Leadership skills** - Demonstrates the potential to manage a research project including the supervision of undergraduate students.

**Informal enquiries to:**
Prof. Liam Barry, School of Electronic Engineering, DCU, Dublin 9
E-mail: liam.barry@dcu.ie Phone: +353 (0)1 7005431

**Application Procedure**

To apply for this role, application forms are available from the DCU Current Vacancies (open Competitions) website at http://www.dcu.ie/vacancies/current.shtml and also from the Human Resources Department, Dublin City University, Dublin 9. Tel: +353 (0) 1 7005149.

**Please clearly state the role that you are applying for in your application and email subject line:** Job Ref 188 Postdoctoral Researcher in Photonic Systems

Applications should be submitted by email to hr.applications@dcu.ie or by Fax: +353 (0)1 7005500 or by post to the Human Resources Department, Dublin City University, Dublin 9. Human Resources Department, Dublin City University, Dublin 9. Tel: +353 1 700 5149; Fax: +353 1 700 5500 Email: Insert hr.applications@dcu.ie

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