



The Rince Institute
Researching Innovative Engineering Technologies
Dublin City University, Ireland



Research Centre	The Rince Institute
Post title	Postdoctoral Researcher Photonics
Level on Framework	Level 1
Post duration	Up to 16 months

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.

Background & Role

The Rince Institute was established in October 1999, and is a national centre for excellence in Information and Communications Technology (ICT) based in the School of Electronic Engineering at Dublin City University. The institute has over 100 staff collaborating on a wide variety of research projects.

The Radio and Optical Communications Laboratory is one of the key laboratories within RINCE, and its main goal is to focus on the design, simulation, characterisation and demonstration of new technologies for future photonics communication systems. It is seeking to recruit a highly motivated Postdoctoral Researcher to undertake leading edge research in the area of millimetre wave signal generation by semiconductor lasers.

The successful applicant will join a multidisciplinary institute to work in liaison with current researchers on:

- Undertaking leading edge research in the domains of photonic systems, and opto-electronics.
- Identifying and developing future research and funding initiatives
- Working alongside and supervising PhD students working in this area

Principle 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
- 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
- Supervise and assist undergraduate students working in this area with their research
- 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 Optics, Photonics, High speed electronics or related area. In addition, it is desirable that the candidate has 1-2 years experience in one or more of the following domains:

- Detailed characterisation of optoelectronics devices
- Semiconductor laser simulation.
- Detailed characterisation of radio frequency devices
- Instrumentation and data acquisition from RF and/or optical instruments

Salary: €37,750 - €46,255

Closing date: 9th December 2011

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.

Application Procedure**Informal enquiries to:**

Dr. Pascal Landais, DCU, Dublin 9 E-mail: landaisp@eeng.dcu.ie Phone: +353 (0)1 700 8044

Application forms are available from:

www.dcu.ie/vacancies/APPLICATION_FORM_8pg.doc and from the Human Resources Department, Dublin City University, Dublin 9. Tel: +353 (0)1 700 5149; Fax: +353 (0)1 700 5500; Email: hr.applications@dcu.ie

Email the completed application form, together with your CV, to: hr.applications@dcu.ie

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