Applications are invited from suitably qualified candidates for the following position:

**Postdoctoral Researcher, Level 1 - PROTON Project**

**Photonics Systems and Sensing Lab. (PSSL), School of Electronic Engineering**

**Up to 24 Month Fixed Term Contract**

This position is open to candidates who meet the following criteria:

- PhD qualification normally required, preferably in an Electronic Engineering or Physics related discipline (preferably with >6 months’ postdoctoral experience)
- Appropriate technical competence and research experience in areas related to Photonics, such as:
  - Multi-carrier (optical frequency comb) generation, characterisation and optimization
  - Spectrally efficient modulation schemes
  - Performance analysis of M-QAM DMT
  - Simulation of PAM 4 and PAM 8 systems
  - Digital signal processing
- Excellent experimental skills with optical components and test and measurement equipment
- Evidence of accomplishment in research and development in the area of optical communications
- A capability of working within a project team to achieve group-oriented results, in parallel to individual productivity and top quality publications
- Good communication, organisation and interpersonal skills
- Experience in presentations to international conferences are preferable
- A commitment to gaining practical experience working on a research project

**Mandatory Training**
The post holder will be required to undertake the following mandatory compliance training: Orientation, Health and Safety and Intellectual Property and Data Protection training. Other training may need to be undertaken when required.

**Salary:**

*€37,874 - €42,559*

*Appointments will be commensurate with qualifications and experience, and will be made on the appropriate point of the salary scales, in line with current Government pay policy*

**Closing Date:** 15th November 2019

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. Prince Anandarajah, School of Electronic Engineering, Dublin City University, Dublin 9, Ireland.
E-mail: prince.anandarajah@dcu.ie, Tel: +353 (0)1 700 7537

*Please do not send applications to this email address, instead apply as described below*

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

Applications should be submitted with a full CV and Cover Letter by email to hr.applications@dcu.ie, and please clearly state the **reference number in the subject line #RF1288**, or by Fax: +353 (0)1 7005500 or by post to the Human Resources Department, Dublin City University, Dublin 9

*Dublin City University is an equal opportunities employer and is committed to promoting gender equality reflected in its attainment of the Athena SWAN Bronze Award. Information on a range of university policies aimed at creating a supportive and flexible work environment are available at [www4.dcu.ie/policies/policy-starter-packs.shtml](http://www4.dcu.ie/policies/policy-starter-packs.shtml)*