



**Unit** Plasma Research Laboratory,  
School of Physical Sciences

**Post title** Technical Officer

**Post duration** Up to 12 Months

**Background & Role**

The Plasma Research Laboratory (PRL) located in the School of Physical Sciences and associated with the NCPST at Dublin City University. The PRL is an Engineering-Physics group developing plasma source technology and new sub-systems and diagnostics to implement, diagnose, and control the plasma systems. The PRL is now looking to recruit a suitable candidate for a Laboratory Technician position.

The development and application of plasma-science is inherently multi-disciplinary and as such there are many applicable skill-sets, some of which the candidates will bring to the group, and some of which will be developed as part of the research program.

The research program consists of developments both in experimental and computer-modeling, and application to PECVD of inorganic layers (Si, SiO, SiN, Al<sub>2</sub>O<sub>3</sub>, etc.) and the demonstration of Semiconductor-Applications of plasma etching.

The group is strongly engaged with international partners and a considerable amount of international travel is anticipated.

The post holders will participate in the development of the PRL's multi-tile, large-area, VHF plasma-source technology.

### **Principle Duties and Responsibilities**

Reporting to his/her Principal Investigator the Technical Officer will:

- Carry out tasks in the operation and maintenance of the experimental apparatus including vacuum systems, high-purity gas delivery systems, and house-facilities.
- Assist members of the group with Equipment
- Perform material characterization of PECVD films and processed surfaces.
- Maintain log-book of operational conditions of the equipment and individual component construction and characterization.
- Support the research staff with operation and upgrading of the equipment in application to the research program.
- Maintain and upgrade computer systems used within the laboratory.

### **Minimum Criteria**

Applicants should have BSc in Physics, Electrical or Mechanical Engineering. In addition, it is desirable that the candidate has experience in laboratory environment utilizing high-vacuum, plasmas, rf-power. An understanding of electrical-mechanical systems, their design, assembly and maintenance is essential. A working knowledge of CAD is expected.

**Salary:** €34,518

**Closing date:** 5<sup>th</sup> December 2014

### **Application Procedure**

#### **Informal enquiries to:**

Dr. Bert Ellingboe, School of Physical Science, DCU

E-mail: [bert.ellingboe@dcu.ie](mailto:bert.ellingboe@dcu.ie)

Phone: +353 (0)1 7005314

#### **Application forms are available from:**

Human Resources Department, Dublin City University, Dublin 9. Tel: +353 1 700 5149;

Fax: +353 1 700 5500 Email: Insert [hr.applications@dcu.ie](mailto:hr.applications@dcu.ie)

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