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

Full Professor of Plasma Physics  
Faculty of Science and Health  
School of Physical Sciences  
Dublin City University  
Permanent Contract

Dublin City University  
www.dcu.ie is a research-intensive, globally engaged, dynamic institution that is distinguished by both the quality and impact of its graduates and its focus on the translation of knowledge into societal and economic benefit. DCU prepares its students well for success in life, and in the workplace, by providing a high- quality, broad education appropriate to the challenges and opportunities of the 21st century. As Ireland’s University of Enterprise, it is characterised by a focus on innovation and entrepreneurship along with a track record of effective engagement with the enterprise sector. Excellence in its education and research activities has led to its consistent position in the rankings of the world’s top young universities (e.g. THE 100 Under 50).

DCU School of Physical Sciences  
The DCU School of Physical Sciences was established in 1980 as one of the foundation schools of DCU (then NIHED). The School offers a wide range of undergraduate and postgraduate programmes and also supports a vibrant community of PhD scholars. It takes great pride in the achievements of its graduates who have gone on to play key roles nationally and internationally in research, education, industry and many other professional domains. The focus of the School is on applied physics and translational research, with plasma science as one of its main priority areas.

National Centre for Plasma Science and Technology (NCPST)  
Reflecting the focus on translational research, underpinned by excellence in fundamental physics, the National Centre for Plasma Science and Technology (NCPST) is one of four research centres hosted by the School. The NCPST was established in 1999 through a combination of state and private funding under the HEA- PRTL1 Phase 1 programme. Since its establishment, the NCPST has enabled researchers at DCU to secure funding from Science Foundation Ireland (SFI), Enterprise Ireland (EI), Irish Research Council (IRC), a range of EU research funding programmes and industry. It has also brought together large-scale collaborations with major industry leaders such as IMEC, Scientific Systems Ltd, LAM Research, Johnson & Johnson, and INTEL. Of international importance, the NCPST is part of the Euratom fusion R&D programme which has its focus on the construction of the world’s largest energy research project, ITER. Europe is represented in this project by F4E (Fusion for Energy) and NCPST manages Ireland’s contribution. The NCPST has also grown a significant presence and activity in plasma applications and technology, now a major focus of the centre. It has also provided a platform for significant initiatives in undergraduate, postgraduate and continuing education. The NCPST is one of DCU’s longest standing and important research centres and is a key contributor to DCU’s international standing in terms of annual publications and citations.
Full Professor of Plasma Physics

In line with its strategy as a University of Enterprise, and with a focus on translational research, Dublin City University seeks to appoint an outstanding individual to the position of Full Professor of Plasma Physics with an emphasis on applications of low temperature plasmas. The successful candidate will have a high profile in the field and possess an exceptional track record of teaching, research and contribution to the field.

Reporting to the Head of School, the DCU School of Physical Sciences is now seeking to appoint an exceptional, internationally recognised plasma physicist, committed to the pursuit of leading-edge research, who will support strategic research leadership in the School and the NCPST Research Centre, and also to DCU, as the need arises. The successful candidate will also be expected to use prior experience to support teaching, curriculum development, and administrative activities in the School, across all levels. This position presents an exciting opportunity for an appointee to make a significant contribution to the future of DCU as it enters its next stage of major development.

Duties and Responsibilities
Please refer to the job description for a full list of duties and responsibilities associated with this role.

Candidate Requirements
Applications are invited from senior academics who are highly active researchers within the area of low temperature plasma physics with an emphasis on applications. Applicants must possess a PhD in Physics.

The successful candidate will be expected to have:

- An outstanding track record of research in low-temperature plasma physics, including both low pressure and atmospheric pressure plasmas
- An excellent and sustained publication record of the highest international standard in plasma physics and its applications
- Significant evidence of esteem in the field of plasma physics by way of prizes, awards, invitations to speak at international conference, carry out reviews, editorships, etc.
- A proven track record of significant success in attracting external research funding
- Deep knowledge of plasmas in molecular gases, with relevance to novel interdisciplinary applications, such as plasma medicine, plasma agriculture and environmental applications
- Evidence of working at the interface of experiments and computational techniques with experience in both, including advanced diagnostics and laser spectroscopy techniques
- The ability to exploit of ultrafast plasma diagnostic techniques
- Experience of working with stake holders such as industrial partners
- Experience of leadership, including strategy development and management of complex research programmes

The successful candidate will also be expected to have:

- Deep experience of teaching delivery along with module and/or programme development at undergraduate and postgraduate levels
- Evidence of teaching excellence and innovation in on-campus, blended and/or online settings
- A track record of successful supervision of a substantial number of PhD students to completion as sole or joint primary supervisor.

Candidates must also demonstrate excellent interpersonal and communication skills consistent with the highest quality of teaching, research, management and external engagement, together with evidence of successful teamwork and a collegial approach.

The successful candidate will play an important role in the further enrichment of the School’s national and international reputation; they must demonstrate clear leadership attributes and skills and have the ability and interest to inspire and motivate colleagues with regard to all areas of activity of the DCU School of
Physical Sciences.

Evidence of effective external engagement (academia, business community, media and wider society) is highly desirable and candidates must demonstrate a commitment to such activities which are in keeping with School’s mission and strategy.

**Salary Scale:** Full Professor salary scale €117,915 – €151,476

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

**Closing date:** 14th July 2020

**Informal Enquiries** in relation to this role should be directed to: Professor John Costello, Full Professor of Physics, School of Physical Sciences, DCU; E-mail: john.costello@dcu.ie Tel. +353 1 700 5304

**Further information:** information on the School including specific areas of research expertise and details of taught programmes, may be found at: [https://www.dcu.ie/physics/index.shtml](https://www.dcu.ie/physics/index.shtml)

**Application Procedure:**
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)

Applications should be submitted by e-mail with your completed application form to hr.applications@dcu.ie

Please clearly state the role that you are applying for in your application and email subject line: **Job Ref #NR052**.

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)