Assistant Professor in Astronomy

Faculty of Science & Health

School of Physical Science

Permanent

Introduction

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, rounded 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 and a track-record of effective engagement with the enterprise sector, including commercial, social and cultural enterprises. Excellence in its education and research activities has led to its consistent position in the rankings of the world's top young universities.

DCU has a strong track record in attracting both Irish and European Union research funding under Horizon 2020 and all previous Framework Programmes, Marie Curie Actions and Erasmus. We offer a dynamic and internationally-focused environment in which to advance your academic career.

The School of Physical Sciences at Dublin City University has a high standing within Ireland and internationally, for both its teaching and research activities. There are more than fifty researchers within the School's research groups including postgraduate students, postdoctoral researchers, research officers, research technicians and administrators. Physics research at DCU covers **astronomy and astrophysics, low temperature plasmas, intense laser matter interactions, optical/biomedical sensors, microsystems, materials physics and physics education.** The school has been very successful in winning substantial research funding and programme grants from Science Foundation Ireland (http://www.sfi.ie), the Higher Education Authority PRTLI programme (www.hea.ie/PRTLI), Enterprise Ireland (www.enterprise-ireland.com) and the EU Horizon2020, in addition to postgraduate scholarships and postdoctoral fellowships from the Irish Research Council for Science, Engineering and Technology (www.research.ie). Research in astronomy takes place in the Schools of Physical and Mathematical Sciences within the university approved Centre for Astrophysics & Relativity (CfAR) (www.cfar.ie) which focuses on research in astrophysics and relativity.

The School of Physical Sciences offers three undergraduate degree programmes: B.Sc. in Applied Physics, B.Sc. in Physics with Biomedical Sciences and B.Sc in Physics with Astronomy (PHA). PHA commenced in October 2003

and produced its first graduates in November 2007. This 4-year degree programme builds on a core physics curriculum (common to all physics programmes in the School) in years one and two, and provides modules in fundamental and applied physics and applications to astronomy, astrophysics and space science. It is aimed at producing graduates with the skills necessary to become physicists, astrophysicists or astronomers. Topics covered include astronomy, space science and technology, quantum mechanics, optics, lasers, electronics, programming, instrumentation, signal processing, mathematics and computational physics, selected topics in modern physics, etc. The programme provides students with opportunities to work with professional astronomers through placements in Ireland and a field trip abroad.
The School of Physical Sciences wishes to recruit a new permanent appointee at Assistant Professor level with expertise in Astronomy/Astrophysics.

Duties attaching to the post will include:

Teaching
The appointee will be expected to contribute directly to undergraduate and postgraduate physics and associated degree programmes, *via* teaching of physics lecture modules (including at advanced undergraduate and postgraduate level), coordination of undergraduate physics laboratories, contribution to development of undergraduate physics laboratory activities, student mentoring/tutoring, final year project supervision, in a broad range of physics, astronomy, astrophysics and space science topics. The appointee would also be expected to undertake various administrative duties, including acting as programme chair on the normal rotating basis and engage with associated outreach and related activities. The total teaching hours and responsibilities will be defined by the Head of School in line with normal workload allocation.

Research
The appointee will be expected to engage strongly with research activities and have the desire and capability to collaborate effectively with other DCU colleagues engaged in astronomy/astrophysics research in the School of Physical Sciences and CfAR. The appointee will lead an active and vibrant programme of research activities in a field of astronomy or astrophysics, including attracting significant research funding and recruiting and supervising postgraduate research students. We are seeking a candidate with a genuinely broad vision who, in the medium and longer terms, will develop new research directions.

Job Requirements:
The successful candidate will be expected to take a leadership role in both the teaching and research missions of the School and University in the areas of astronomy/astrophysics. To this end they should be able to teach a broad range of physics topics at honours undergraduate physics level and at postgraduate level in their area of specialization and contribute to the future development of the School’s teaching.

Applicants must hold an honours degree in physics, astrophysics or astronomy, and hold a PhD in astronomy or a related area, with a strong preference for a candidate with a proven experience in any area of observational astronomy. Additional modelling experience would be welcome. Postdoctoral experience and a demonstrable track record of high quality and original research, as evidenced by regular publication in high impact astronomy/astrophysics journals, a significant citation rate, presentations at cognate conferences and the ability to attract research funding, are expected for an appointment at Assistant Professor level. Experience in the delivery of undergraduate lecture and laboratory physics modules would be an advantage.

The successful candidate will be a highly motivated individual on track to develop into a top tier physics academic, with a well-balanced teaching and research profile.

Closing date: 12th June 2019

Salary scale: *€52,188 - €83,039
**Appointment will be commensurate with qualifications and experience and will be made on the appropriate point of the Assistant Professor above bar salary Scale, in line with current Government pay policy.*

Informal enquiries: Informal enquiries should be directed to Head of School/Associate Professor, Jean-Paul Mosnier, School of Physical Sciences, DCU, Dublin 9. E-mail jean-paul.mosnier@dcu.ie Tel: +353 (0)1 700 5303 Fax: +353 (0)1 700 5384.

Application Procedure:
Application forms are available from the DCU Current Vacancies (Open Competitions) website at http://www4.dcu.ie/hr/vacancies/current.shtml and also 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 **Please clearly state the role that you are applying for in your application and email subject line: Job Ref #BC0701 Assistant Professor in Astronomy**

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