



Dublin City University
Faculty of Science & Health
SCHOOL OF PHYSICAL SCIENCES
Lecturer in Astrophysics
5 Year Contract

Introduction

The School of Physical Sciences at DCU conducts internationally competitive fundamental and applied research in the areas of:

- Astrophysics
- Atomic, Molecular and Plasma physics
- Nanomaterials and Semiconductor Surfaces
- Physics Education
- Optical Sensors/Biosensors and Microfluidics

Staff are also members of a number of National and Large-Scale Research Centres at DCU, including the National Centre for Plasma Science and Technology (www.ncpst.ie), the National Centre for Sensor Research (www.ncsr.ie) and the Biomedical Diagnostics Institute (www.bdi.ie). The School offers three undergraduate honours physics B.Sc. (Honours, NFQ level 8) degree programmes, Applied Physics, Physics with Astronomy and Physics with Biomedical Sciences, as well as taking a lead role in the delivery of the Science Education degree focussing on the formation of secondary (second level) school teachers. In addition, the School participates in a number of faculty-wide undergraduate interdisciplinary programmes such as the B.Sc. in Environmental Science. It also contributes to undergraduate programmes in Chemistry, Biology and Engineering.

Lecturer in Astrophysics

The School seeks to appoint a Lecturer in Astrophysics on a five year fixed term contract basis. Applicants for the post must hold an honours degree in Physics or a related discipline, should be qualified to a post-graduate level and have completed a doctoral qualification in Astrophysics or related area.

The successful candidates will also have a minimum of three years relevant experience, preferably a number of years postdoctoral experience with a record of high quality university-level teaching. Applications from candidates with expertise in the area of High Energy Astrophysics would be particularly welcome. In addition, applicants should have a demonstrated track record of high quality research and high impact publications and other research outputs. The potential to compete for and win research funding and to attract top quality research students is an especially desirable asset as is previous teaching experience at third level. Existing strong collaborative relationships with EU and other international Astrophysics Research Centres is also desirable. The successful candidate will be expected to contribute strongly to both the teaching and research missions of the School as well as undertaking administrative duties.

Duties attaching to the post include but are not restricted to the following:

- (1) Teaching:** The post holder will be expected to contribute directly to teaching on undergraduate and postgraduate degree programmes to include both module development and delivery. S/he will teach modules across the four years of the Physics with Astronomy programme for example in basic Astronomical Techniques, Stellar Physics, Astrophysics and Cosmology and associated laboratory programmes, as well as general physics topics in the early stages of all programmes delivered by the School. Furthermore, all academic members of staff are expected to participate in the supervision of final year research projects. The successful candidate will be expected to embrace innovative teaching approaches and associated emerging technologies in order to enhance the student learning experience. The teaching and related responsibilities assigned to the post holder will be determined by the Head of School.

- (2) Research:** The post holder will be expected to carry out research in the area of High Energy Astrophysics by developing an independent research programme and by collaborating with, and/or contributing expertise in domains such as observation, theory/computation to, existing groups in DCU and to those in the broader Irish Astrophysics community, including the Dublin Institute for Advanced Studies (DIAS) with which the School has a cooperation framework. The successful candidate will explore Irish and International research funding opportunities with a view to establishing a sustainable research group and programme which will enhance the research profile of the School by delivering high quality research publications and other academic outputs, training postgraduate students and engaging in other appropriate research-related activities. Specifically, s/he will be expected to leverage his/her own capabilities as well as the School's specific reputation in this area to attract high quality postgraduate students which will enhance the research performance of the School and University.

(3) Administration and University Service: The post holder will be required to undertake certain administrative functions related to the teaching, research and other activities of the School of Physical Sciences and the Faculty of Science and Health. Such duties will be defined by the Head of School. These duties may include participation in committees (intra- and extra- mural), representation of the School in marketing to, and recruitment of, students and participation in open days. In particular, the successful candidate will be expected to take on the role of Programme Co-ordinator of the Physics with Astronomy degree on a phased basis over six months beginning after one year in post. S/he will also contribute across the broader University in the context of new strategic developments as well as ongoing university-wide activities.

Further information:

For further information on this position please contact:

Professor Colette McDonagh, Head of School, School of Physical Sciences, Dublin City University, Dublin 9.

E-mail: colette.mcdonagh@dcu.ie Tel: +353 (0)1 700 5306/5301

Salary Scale:

Lecturer (above bar): €50,159 - €76,891

Lecturer (below bar): €41,502 - €51,724
€37,352 - €46,552*

*Applies to new entrants to the public sector after 01 January 2011
Appointment will be commensurate with qualifications and experience

Closing date: 9th May 2014

Application forms are available from: **Human Resources Department, Dublin City University, Dublin 9. Tel: +353 (0)1 700 5149 Fax: +353 (0)1 700 5500 E-mail: hr.applications@dcu.ie**

and on the DCU Current Vacancies (Open Competitions) website :

<http://www.dcu.ie/hr/vacancies/current.shtml>