



Candidate Information

Position:	Lecturer in Experimental Plasma Physics
School/Department:	School of Mathematics and Physics
Reference:	19/107301
Closing Date:	Monday 29 April 2019
Salary:	£36,261 - £39,610 per annum (potential to progress to £43,266 per annum through sustained exceptional contribution)
Anticipated Interview Date:	Monday 20 May 2019

JOB PURPOSE:

To develop an ambitious research profile within the Centre for Plasma Physics (CPP), in areas complementing existing activities within the Centre; to teach across a range of Physics module at undergraduate level within the School of Mathematics and Physics, making a strong contribution to the School's administration and outreach activity.

MAIN ACTIVITIES/RESPONSIBILITIES:

1. Research (40%-60% of time spent)

- To lead and undertake experimental research in plasma physics, involving either technological plasmas or laser-produced plasmas, that is of internationally excellent quality in terms of originality, significance and rigour.
- To regularly publish research in top tier international peer reviewed journals in the subject area, leading to a REF return in Physics.
- To secure appropriate external funding through research applications
- To attract and supervise post-graduate research students and post-doctoral researchers
- To engage, where relevant, in knowledge transfer and innovation activity and to demonstrate potential for research impact, beyond the academic discipline (e.g. economic or societal impact).

2. Education (20%-30% of time spent)

- To deliver teaching and assessment activities across a variety of undergraduate Physics modules, including lectures, setting/marking coursework and delivering lab practicals.
- To supervise undergraduate students in practical and project-based work including Final Year Projects.
- To contribute to the development of new teaching delivery methods, including but not limited to new blended learning and research-led teaching methods.
- To undertake initiatives to improve the overall student experience, by new methods of assessment, feedback, and student engagement.

3. Leadership and Administration (10%-20% of time spent)

- To actively engage with and contribute to the full range of student recruitment activities such as Open Day events.
- Contribute to the School's outreach strategy by designing or delivering Community outreach programmes and developing external links, both nationally and internationally.
- To participate in relevant committees at the School, Institute, Faculty and University level.
- To carry out designated School educational and research related administrative duties including, for example, committee work, working group leadership or course administration.

ESSENTIAL CRITERIA

- Hold a PhD in Physics, Engineering or closely related discipline.
- Evidence of potential to deliver high quality undergraduate teaching in Physics.
- Record of publication of internationally excellent research outputs (commensurate with career stage)
- Proven experimental expertise in one of the following areas: technological plasmas or laser-produced plasmas.
- Demonstrable involvement in securing research income or beamtime.

- Evidence of independent contribution in research projects and outputs and potential to establish an independent research program.
- Ability to communicate complex information effectively.
- Ability to communicate effectively in English, both orally and in writing
- Evidence of good interpersonal skills and the ability to work both independently and as part of a team

DESIRABLE CRITERIA

- Hold a PhD in Plasma Physics
- PGCHET or equivalent teaching qualification or membership of professional teaching body e.g. HEA
- Experience of teaching Physics in tertiary level education
- Evidence of good teaching evaluations
- A record of successful grant or beamtime applications as principal investigator or co-investigator.
- Successful supervision of PhD or Masters students
- Evidence of successful research collaboration, participation in collaborative networks or research teams
- A record of collaboration with and links to industry, or other activities aiming at achieving broader societal and economic impact
- Evidence of social engagement and outreach activities