

## Academic Role Profile

<b>Job Title:</b>	Lecturer B
<b>Responsible to:</b>	Head of Department or Faculty
<b>Responsible for:</b>	Research staff employed on programmes and awards directed by the post holder. May have supervisory responsibility for other staff.

### Job Summary and Purpose

**To develop a personal research portfolio in line with the Faculty's research strategy, to teach at undergraduate and postgraduate level, and to participate in Faculty administration.**

### Main Responsibilities/Activities

#### **To support the research activities of the Faculty by:**

Developing the research activities of the Faculty by sustaining a personal research plan independently and/or in collaboration with others as part of a larger research team.

Managing and undertaking research activities in accordance with a specific project plan, and supervising and guiding the work of staff and research students on own specialist area.

Developing innovative research proposals (as a self-contained item or as part of a broader programme), identifying sources of funding, submitting funding bids, and gaining positive reviews for these. Planning the research to be undertaken.

Publishing original research in appropriate journals or other media, as appropriate.

Attending appropriate conferences for the purpose of disseminating research results or for personal development.

Sustaining and developing professional expertise and maintaining the requirements for registration with the appropriate body (*for academics with clinical links only*).

#### **To support the teaching objectives of the Faculty by:**

Developing new teaching methods and designing programme units, and taking responsibility for the quality of programme units.

Planning, delivering and critically reviewing a range of teaching and assessment activities including lectures.

Training and supervising of students (including research students) and acting as a tutor for industrial/professional training year students, according to own area of subject specialism.

Setting/marking programme work, practical sessions, supervisions, fieldwork and examinations according to own area of subject specialism, and providing appropriate feedback to students.

## Academic Role Profile

Taking part in activities such as validating and examining in relation to the University's associated institutions.

### **To undertake pastoral care of students**

Using listening, interpersonal and pastoral care skills to deal with sensitive issues concerning students and provide support. Appreciating the needs of individual students and their circumstances. Acting as personal tutor and giving first line support. Referring students as appropriate to services providing further help.

### **To engage in scholarship by:**

Continually updating knowledge and understanding in the field or specialism. Extending, transforming and applying knowledge acquired from scholarship to teaching, research and appropriate external activities.

### **To contribute to the efficient management and administration of the Faculty by:**

Performing such personal administrative duties throughout the Faculty as are recognised by the University as properly within the remit of the work of academic staff, as allocated by the Head of Faculty. Such duties may include Faculty co-ordinating roles, for example, running the process of admissions, examinations or teaching quality assessment.

Advising, supervising and giving guidance to other staff

## **Person Specification**

### **The post holder must have:**

An honours degree or an appropriate and equivalent professional qualification in a relevant subject

Normally a doctoral degree

Normally former experience of teaching

Evidence of administrative and organisational skills

Evidence of current research/scholarship at post-doctoral level or equivalent

## Academic Role Profile

### Relationships and Contacts

The post holder will be a member of such Faculty Committees as may be relevant to their administrative duties, for example Faculty Board of Studies and Examination Board. New appointees will be assigned a senior colleague to guide their development and aid their integration into the Faculty and university. Research priorities will be agreed within the strategic framework of the research theme of which they are a member. Teaching and administrative duties will be allocated by the Head of Faculty, within the context of the teaching programmes agreed by the Faculty Learning and Teaching Committee or similar body.

### Special Requirements

To be able to participate in residential field work, in the UK or overseas, according to own area of subject specialism.

The post holder is expected to work outside normal office hours as necessary.

### All staff are expected to:

- Positively support equality of opportunity and equity of treatment to colleagues and students in accordance with the University of Surrey Equal Opportunities policy.
- Help maintain a safe working environment by:
  - Attending training in Health and Safety requirements as necessary, both on appointment and as changes in duties and techniques demand
  - Following local codes of safe working practices and the University of Surrey Health and Safety Policy
- Undertake such other duties within the scope of the post as may be requested by your Manager.

## Academic Role Profile

### Addendum

This document provides additional information relating to both specific aspects of the post/Faculty and any post specific person specification criteria. The information contained within this document should always be read in conjunction with the accompanying generic Job Purpose.

<b>Job Title:</b>	Lecturer in Theoretical Nuclear Physics
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### **Background Information/Relationships**

The post holder is expected to complement our existing strengths in the theory of nuclear reactions and structure. In particular, expertise in developing reaction theories would be an advantage. The post holder is expected to have the potential to collaborate with colleagues, particularly in the areas listed below:

- Studies at current radioactive ion beam facilities around the world, such as RIBF at RIKEN; Preparation to exploit future facilities such as FRIB at MSU and FAIR at GSI; to apply theoretical developments to understand results of experimental investigations at such facilities
- Development of new theoretical methods to understand the nature of the atomic nucleus and the nuclear many-body problem
- Training of young researchers through participation in schools for PhD students and PDRAs in concert with international networks such as the TALENT schools;
- Within the University (and potentially, wider afield) in developing excellent taught programmes at undergraduate level

You should be able to develop and communicate a clear vision of a new research programme for Surrey that best fits the needs of the University, as well as the wider nuclear physics community. Furthermore, you should have the ability to secure funding and research council support to deliver this new programme. The group's ongoing research is primarily funded through STFC consolidated and project Grant support.

The Surrey Nuclear Physics Group consists of 8 academic staff and several research-active emeritus staff. As part of the new departmental initiative, we are looking to increase academic staff numbers to a total of 10 balanced equally across experiment and theory.

The Nuclear Physics Group at Surrey has thrived through a wide range of collaborative endeavours both internally and internationally, and as such, the post-holder would be encouraged to develop new and existing scientific collaborations in nuclear physics research. In particular, there is a strong link between experimental research and nuclear theory at Surrey, with potential to extend interactions to other subject areas, such as the newly established astrophysics group, which is fast gaining an international reputation for excellence.

### Background Information

#### Faculty

The University of Surrey is organised into three Faculties. The Faculty of Engineering and Physical Sciences (FEPS) is the largest Faculty and comprises the Departments of Chemistry, Chemical and Process Engineering, Civil and Environmental Engineering, Computer Science, Mathematics, Physics, Electrical and Electronic Engineering and Mechanical Engineering Sciences. Within these disciplines we enjoy a reputation for excellence in research and teaching, allied to a strong enterprise culture, numerous industrial interactions and

## Academic Role Profile

partnerships, and an unrivalled record of graduate employment. We seek to recruit the best academic staff from around the world. Our strong research ethos is exemplified by our large and very vibrant postgraduate community (640 research students and over 800 taught postgraduates), support by outstanding facilities. We believe in the principle that a University should contribute to the cultural wealth of society by developing the fundamental sciences, whilst also developing the technological applications that will improve our overall quality of life.

### Department of Physics

The Department of Physics at the University comprises approximately 32 academic (faculty) staff, 30 postdoctoral researchers, 100 postgraduate students (MSc and PhD) and 400 undergraduate students. The Department has been ranked in the top 10 UK Physics Departments in a number of national league tables.

The Department has a strong record in taught postgraduate provision, and along with the rest of the University, it has an outstanding graduate employment record. A number of academic staff have received prestigious awards and hold personal Fellowships: Professor Al-Khalili was awarded the Royal Society Faraday medal and is regularly seen and heard on television and radio; Professor Sellin holds an AWE William Penny Fellowship; Professor Gieles holds an ERC starting Grant, Dr Rios Huguet holds an STFC Advanced Fellowship and Dr Lotay holds an Ernest Rutherford Fellowship. Professor Regan has a joint appointment with the National Physical Laboratory.

The Department of Physics has existing strengths in Nuclear Physics, Soft Matter, Photonics, Astronomy, Radiation Sensors and Medical Physics research. These activities are brought together within research centres such as the Centre for Nuclear and Radiation Physics and the Advanced Technology Institute (ATI). The Faculty and the Department strongly encourage research collaborations across discipline boundaries. Surrey has recently established a plan for supercomputer facilities at the University and nuclear theory is supported by dedicated equipment that has been obtained from specific STFC capital funds.

### **Person Specification**

This section describes the sum total of knowledge, experience & competence required by the post holder that is necessary for standard acceptable performance in carrying out this role. This is in addition to the criteria contained within the accompanying generic Job Purpose.

	<b>Essential/ Desirable</b>
A higher research degree (PhD)	E
Internationally Excellent research performance (continuing publication record, and evidence of actual/potential ability in external research grant income generation)	E
Potential and willingness to develop a track record in academic leadership	E
Potential and willingness to supervise doctoral students	E
Evidence of high quality teaching	D
Evidence of scholarly contributions to conferences, professional meetings and societies at an international level, and evidence of achievements in other external activities at an international level	D

## Academic Role Profile

### Key Responsibilities

This document is not designed to be a list of all tasks undertaken but an outline record of any faculty/post specific responsibilities (5 to 8 maximum). This should be read in conjunction with those contained within the accompanying generic Job Purpose.

1. Making a positive contribution to the Faculty's strong research profile and to appropriate postgraduate and undergraduate teaching programmes.
2. Engaging in scholarship to remain at the forefront of intellectual activity in an area of theoretical nuclear physics
3. Dissemination of research activities through written publication and conference presentations
4. Supporting undergraduate student learning through ways such as developing and delivering taught module content; supporting the Department's successful MPhys Research Year programme.
5. Supporting the Department's outreach activities, such as participation in Open Days, Applicant Days, and its public lecture series

**N.B. The above list is not exhaustive.**