



## THE POST

<b>Colleges:</b>	<b>College of Engineering, Mathematics and Physical Sciences (Based in the Living Systems Institute)</b>
<b>Post:</b>	<b>Postdoctoral Research Fellow</b>
<b>Reference No:</b>	<b>P56391</b>
<b>Grade:</b>	<b>F</b>
<b>Reporting To:</b>	<b>Professor John Terry</b>

The above full-time post is available from 3 Dec 2018 on a fixed term basis until 30 Nov 2021. Applicants are strongly encouraged to contact the Centre for discussion of the role prior to application.

### **Biomedical and Clinical Sciences**

The University of Exeter has significant strengths across the biomedical and clinical sciences notably chronic disorders (such as dementia, diabetes and other endocrine disorders and auto immune disease). In addition to clinical populations, researchers use a range of model systems including zebrafish and human cell lines to study mechanisms of disease, utilising a variety of state of the art techniques including cryoEM, calcium imaging and single cell transcriptomics. Consequently, researchers will have significant opportunities to work with world-leading researchers across a wide range of expertise. The successful applicant will join a very strong group of 5 Wellcome-funded Research Fellows, 6 MRC or EPSRC-funded Research Fellows, 13 PDRAs and 12 PhD students aligned to both the Centre for Biomedical Modelling and Analysis ([www.exeter.ac.uk/cbma](http://www.exeter.ac.uk/cbma)) and the EPSRC Centre for Predictive Modelling in Healthcare ([www.exeter.ac.uk/pmh](http://www.exeter.ac.uk/pmh)).

### **Job Description**

#### **Main purpose of the job:**

This position will have two main components, with the Fellow expected to divide their time equally between the two: First, they will **direct their own programme of research** (which should be in an area closely aligned to existing strengths within the University). Second, they will **develop new areas of cross-disciplinary research**, leading to new collaborations. This will include pump priming, co-creating and consolidating both new and existing research partnerships; training and advising clinicians and biomedical researchers in areas aligned to their core expertise; and mentoring of students, thus enhancing the interdisciplinary research ethos within the University. We welcome applicants who would wish to pursue this role part-time, and we are able to support flexible working patterns.

The successful candidate is required to have a high level of analytical ability, as well as be able to communicate complex and conceptual ideas to a range of groups, including scientists from outside their own immediate research area, as well as members of the public, and to participate as part of an interdisciplinary team to develop new research ideas. The successful candidate will have an interest in applying their quantitative knowledge to a broad range of biomedical and clinical problems.

The Translational Research Exchange @ Exeter (established through a 5 year Wellcome Trust Institutional Strategic Support Award) is directed by Neil Gow FRS (Professor of Microbiology and Deputy Vice Chancellor for Research and Impact) alongside Co-Directors John Terry (Professor of Biomedical Modelling) and Willie Hamilton (Professor of Primary Care Diagnostics). These Professors, together with our Steering Group, will play an important role in mentoring the Fellows as well as utilising the TREE to establish new collaborations between research areas and clinical practice. The environment will allow the appointed Fellows to gain key data generating methodologies, ensuring their awareness of data control and assessment. This balance of research and training provides a unique environment for the appointed Fellows to establish their own independent research careers within the biomedical domain.

### **Main duties and accountabilities:**

1. To undertake research as appropriate to the field of study including:
  - Leading individual or collaborative research projects;
  - Developing research objectives, projects and proposals;
  - Identifying sources of funding and contributing to the process of securing funds;
  - Extending, transforming and applying knowledge acquired from scholarship to research and appropriate external activities;
  - Writing or contributing to publications or disseminating research findings using media appropriate to the discipline;
  - Making presentations at conferences or exhibiting work in other appropriate events;
  - Assessing, interpreting and evaluating outcomes of research;
  - Developing new concepts and ideas to extend intellectual understanding;
  - Resolving problems of meeting research objectives and deadlines;
  - Developing ideas for generating income and promoting research area;
  - Contributing to the growth of the Centre through enabling new interdisciplinary research as well as building upon areas of existing strength
  - Developing ideas for application of research outcomes;
  - Deciding on research programmes and methodologies, often in collaboration with colleagues and sometimes subject to the approval of the head of the research programme on fundamental issues.
  
2. To routinely communicate complex and conceptual ideas to those with limited knowledge as well as to peers using high level skills and a range of media and to present the results of scientific research to sponsors and at conferences.

This job description summarises the main duties and accountabilities of the post and is not comprehensive: the post-holder may be required to undertake other duties of similar level and responsibility. Please visit the Human Resources website to view the Research Fellow role profiles.

## **Person Specification**

<b>Competency</b>	<b>Essential</b>	<b>Desirable</b>
Attainments/Qualifications	PhD in Biomedicine	
Skills and Understanding	Possess sufficient specialist knowledge in bioinformatics, specifically the evolution of protein signalling networks. A willingness to apply this knowledge to a range of biomedical questions, and develop research programmes and methodologies across disciplines.	Record of research output in internationally recognised peer-reviewed publications.
Prior Experience	Experience of research in a quantitative discipline	Experience of post-doctoral level research. Experience of working in an interdisciplinary research environment. Experience of undergraduate or postgraduate teaching and supervision. Success in obtaining grant funding (either internal or external).
Behavioural Characteristics	Excellent written and verbal communication skills. Able to communicate complex and conceptual ideas to a range of groups, including scientists from outside the immediate research area and participate as part of an interdisciplinary team to develop new research ideas. Evidence of the ability to collaborate actively within the Institution and externally to complete research projects and advance thinking. Able to participate in and develop internal and external research networks.	Able to identify sources of funding, generate income and build relationships for future activities.

### **Informal Enquiries**

Before submitting an application you should discuss the post further by contacting Chrissie Walker, Research Project Manager for TREE. Email: [c.j.walker@exeter.ac.uk](mailto:c.j.walker@exeter.ac.uk) Tel: 01392 725838

### **Terms & Conditions**

Our Terms and Conditions of Employment can be viewed [here](#).

### **Further Information**

Please see our [website](#) for further information on working at the University of Exeter.