

## THE POST

<b>College/Service:</b>	<b>College of Medicine &amp; Health</b>
<b>Post:</b>	<b>Senior Lecturer or Clinical Senior Lecturer in Immunology (Education and Research)</b>
<b>Reference No:</b>	<b>P01303</b>
<b>Grade:</b>	<b>G</b>
<b>HERA:</b>	<b>SLEC</b>
<b>Reporting to:</b>	<b>Pro Vice Chancellor (PVC) or nominee</b>

This permanent, full time post as a Senior Lecturer in Immunology is available at the University of Exeter Medical School, College of Medicine & Health, one of the fastest growing medical schools in the UK. This post is part of an expansion which has been funded by a £6 million investment from Research England in the Exeter Diabetes Centre of Excellence as part of 'Expanding Excellence in England' (E3).

### **The E3 Diabetes Centre of Excellence**

The University of Exeter Medical School is renowned for its world leading diabetes research <http://www.exeter.ac.uk/diabetes/>. It is led by Professor Andrew Hattersley, FRS CBE, a world leader in the field who has done highly cited and award-winning research particularly in monogenic diabetes, diagnosis of subtypes and precision medicine. In the past 2 decades expertise in genetics has been built on by world leaders such as Professor Tim Frayling, Professor Sian Ellard OBE, and Associate Professor Michael Weedon. Recently innovative research in Type 1 diabetes from Professor Noel Morgan, Associate Professor Sarah Richardson and Dr Richard Oram has changed views internationally. Exeter are international leaders in Type 2 diabetes therapy response, accurate diagnosis of subtypes and experimental medicine approaches to understand mechanisms. A central feature of diabetes research in Exeter is it aims to be directly clinically relevant. Much of our work has altered diagnosis and treatment throughout the world.

The outstanding world-leading [diabetes research](#), in Exeter was recently recognised in the award of £6 million from Research England as part of 'Expanding Excellence in England.'(E3). The E3 funding will provide a step change in our capacity to research diabetes facilitating expansion into new fields including Immunology, Cell biology, Experimental medicine, Data Science and Artificial intelligence.

We are looking to attract world-class, ambitious, academic staff at all levels, in Immunology who are excited by the opportunity to apply their discipline expertise in novel approaches to investigate diabetes and join our internationally recognized team. We encourage applications from people who have not directly worked in Type 1 diabetes immunology but are keen to develop novel exciting research in this area.

We will build on our international reputation by combining novel approaches, tools and techniques with Exeter's current expertise and distinctive patient resources. Collaboration with other colleagues in the College of Medicine and Health, the Living Systems Institute, Centre for Medical Mycology and Institute for Data Science and Artificial Intelligence is very much encouraged as is the development of external national and international collaborations both academic and with industry.

The University of Exeter Medical School has a proven track record of world-leading research, excellent education and high student satisfaction. Since the creation of a medical school in the south west in 2001, we have seen substantial investment, growth and development, and this trajectory is set to continue as we develop new programmes and recruit world-class researchers. In education, we specialise in research-led teaching and in developing socially accountable graduates who are collaborative leaders, committed to life-long scholarship for the service of patients and the public. We work closely with our healthcare collaborators in the region, to ensure we are meeting the complex needs of a changing healthcare sector. We are training tomorrow's doctors, scientists and healthcare professionals, and supporting them to be empathic and inquisitive, and to adopt our ethos of putting people first. Medicine at the University of Exeter has entered the top 10 in the Times and The Sunday Times Good University Guide.

### **Job Description and Person Specification**

#### **Summary of post: Immunology**

Immunology is a priority for the Diabetes Centre of Excellence and the University of Exeter Medical School. We are keen to develop novel and exciting research into autoimmunity in Type 1 diabetes (T1D) in man by making multiple appointments at different levels. Key areas for new work could include defining the mechanism of unique insights into from Exeter into T1D: the different autoimmune patterns seen in human pancreata close to diagnosis (Morgan, Richardson), the persistence of viral RNA and protein and evidence of a host response to infection in T1D pancreata (Richardson, Morgan), the persistence of a small subset of functioning beta-cells in long term T1D (Oram), Type 1 diabetes in the elderly (Hattersley, Jones) and the description of novel and known monogenic autoimmunity predisposing to early-onset diabetes (Flanagan, Hattersley). The aim will be to develop work on human samples both the unique collection of pancreas samples taken close to diagnosis and long term and samples from patients.

To make progress in human Type 1 diabetes is likely to need novel approaches. We therefore we encourage applications from innovative immunologists either working in Type 1 diabetes at present or from those with experience in other areas of human autoimmunity who may not have worked on Type 1 diabetes but have relevant approaches and techniques. The immunologists will be able to work on novel and pioneering approaches using unique human pancreas samples obtained at the time of diagnosis of type 1 diabetes. Equipment to support applicants includes preferential access to Next Generation Sequencing, state of the art cell sorters and a new high-resolution, automated, digital pathology system. Key collaborators for this post will be the Immunologists led by Professor Gordon Brown in the recently established Centre for Medical Mycology. The ultimate aim is to understand the underlying disease processes in order to understand mechanisms in T1D, to stimulate the development and application of novel immunotherapies and inform the design of new clinical trials.

The post holder will be recognised internationally as a research rising star. They will lead a dynamic research group which will take forward novel ideas, secure funding sufficient to ensure the sustainability of the research team and deliver innovative research projects. They will supervise and enthuse undergraduate and postgraduate students in research and excel at teaching. The post holder will produce research outputs at an appropriate level and disseminate their research to academic, healthcare and patient communities. Collaboration with other colleagues in the College of Medicine and Health, the Living Systems Institute, Centre for Medical Mycology and Institute for

Data Science and Artificial Intelligence is very much encouraged as is the development of external national and international collaborations.

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

To fulfil research, teaching and administration duties as a Senior Lecturer in one/more of the area(s) outlined above.

To contribute to the general operation of the College as a member of its academic team.

### ***Research***

To contribute to enhancing the quality and quantity of research at Exeter in an area related or complementary to existing research strengths in diabetes and associated conditions,

To conduct independent research and act as principal investigator and project leader, and in so doing:

- Enhance the College's international reputation through research publications of appropriate quantity and quality, and contribute to worldwide debate at national and international conferences, and
- Win research earnings through carefully prepared and successful grant applications as well as identifying potential income-generating programmes and collaborative partnerships.

To supervise research projects, managing any dedicated research staff and postgraduate research students.

To help promote a collegiate working atmosphere and stimulating environment that will attract further research staff of the highest quality as well as good postgraduate research students.

To contribute to the further and ongoing development of the research area(s) outlined above.

### ***Teaching***

To develop and deliver undergraduate courses to appropriate academic standards such that:

- Knowledge acquired from research translates to teaching
- Accreditation by professional bodies is obtained where appropriate
- Students are challenged but also tutored and supported with individual care
- Teaching and learning techniques are innovative and inspiring
- Students are supervised appropriately
- Assessment criteria are appropriate, and fairly applied with results fed back to students appropriately
- Module content is continuously reviewed to identify areas for improvement

### ***General***

To contribute to the overall general and academic management in the College by undertaking activities that may be required such as:

- Developing overall academic content and structure of modules with colleagues
- Developing ideas for generating income
- Supporting admissions processes and procedures
- Supporting examinations processes and procedures
- Contributing to the work of College committees
- Contributing to accreditation and quality control processes

## **Person Specification**

The successful applicant will have an independent, internationally-recognised research programme in an active field of research related or complementary to existing Exeter strengths. They will be able to demonstrate the following qualities and characteristics:

- A PhD or equivalent qualification/experience in the subject or a closely related discipline
- A strong, demonstrable record in attracting research funding.
- Teamwork skills to work in collaboration with existing group members
- An active and supportive approach to inter-disciplinary and multi-disciplinary research that will help to foster interactions and links both within the University and externally
- The attitude and ability to engage in continuous professional development
- The aptitude to develop familiarity with a variety of strategies to promote and assess learning
- Enthusiasm for delivering undergraduate and postgraduate programmes
- A strong record of research outputs of appropriate quality and quantity
- Proven academic leadership skills
- Be an externally recognised authority in the broader subject area.

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.

If this opportunity is of interest we would be delighted to hear from you. Please contact Starr Young, Recruitment Lead, to arrange an informal discussion in the first instance at [diabetescareers@exeter.ac.uk](mailto:diabetescareers@exeter.ac.uk)

## **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.