College:	**College of Medicine & Health**
Post:	**Professor of Immunology**
Reference No:	**P01257**
Grade:	**Competitive salary reflecting qualification and experience (Prof Band)**
Reporting to:	**Pro Vice Chancellor (PVC) or nominee**

This permanent, full time post is available at the University of Exeter Medical School, College of Medicine & Health, one of the fastest growing medical schools in the UK.

Job Description and Person Specification

The University of Exeter Medical School is renowned for its world leading diabetes research http://www.exeter.ac.uk/diabetes/ which is led by Professor Andrew Hattersley, FRS, a world renowned leader in the field who has published >600 original articles in leading journals such as Nature, Nature Genetics, the New England Journal of Medicine and the Lancet and is a Reuters highly cited scientist (top 1% for citations in field). Hattersley's research excellence has been recognised by over 50 international and national awards and prizes. He was elected Fellow of the Royal Society in 2010, and made a Commander of the Order of the British Empire (CBE) in 2017.

In recognition of our excellent diabetes research, the University of Exeter Medical School has recently been received a major award to grow our Diabetes Research.

Our Diabetes Centre of Excellence is therefore expanding substantially and we are looking **to appoint ambitious world leading Professors who are excited by the opportunity to apply their discipline expertise in novel approaches to investigate diabetes.**

The funding will provide a step change in our capabilities to respond to the diabetes challenge. We are seeking to increase our interdisciplinary and multidisciplinary research by the appointment of world-class academics in Data Science, Artificial Intelligence, Immunology and Cell biology. We will build on our international reputation by combining these 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

The Diabetes Research unit has an international reputation for delivering excellent, clinically-relevant and distinctive patient-based research. We excel at swiftly translating our discoveries into new treatments and therapies that have real impact in the South West, nationally and internationally. The delivery of scientific advances will be facilitated by the state-of the art facilities such as the latest sequencing and imaging equipment. Implementation of new solutions will also be enhanced by working with our many commercial partners which will include the development of new clinical tools.

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. All of our activities have one goal in mind: to improve people's lives, through better care, treatments, therapies and healthcare systems.

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.

We are particularly interested in academics whose research expertise is in the following areas. We welcome applications from individuals with the following skills, both those who have already applied these skills to diabetes research and those who are keen to do so:

- **Diabetes**

Our world-leading diabetes research and outstanding postgraduate and professional education are underpinned by our expertise in genomics, molecular biology and cell biology, physiology and cutting-edge innovation in technology. Our advances span from discovering biological causes and mechanisms, to improving diagnosis and treatment worldwide, to prevention and supporting people to live healthier lifestyles. The post holder will lead and develop research supporting existing and future strategies and working in a multi-disciplinary and interdisciplinary way.

- **Data Sciences**

We are particularly interested in specialists in Bayesian Statistics who can collaborate with our current teams to provide a step change in capacity and expertise in data handling, programming and Bayesian statistics. This interface between novel data methodology and clinical data is a national priority and will be an important part of this expansion. Interdisciplinary work will be with the University's Institute of Data Science and Artificial Intelligence and the Turing Institute. Previous experience in applying these skills in Diabetes Research is not necessary.

- **Immunology**

Applications from specialists in Immunology are very welcome. 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. The ultimate aim is to understand the underlying disease processes in order to stimulate the development and application of novel immunotherapies and inform the design of new clinical trials. The availability of our new high-resolution, automated, digital pathology system will support this work by superseding current more laborious methods of image analysis. Interdisciplinary work will be with our Living Systems Institute.

- **Cell and Molecular Biology and Experimental Biology**

Specialists in Clinical Science, Cell and Molecular Biology, and Experimental Medicine are encouraged to apply. They will work on innovative research of the human beta-cell, exploring the effects of genetic mutations identified in patients with diabetes on for example beta cell development and function in order to improve the understanding of the development and function of the human insulin producing beta-cell. A key link with our work on human beta-cell development will be the establishment of beta-cell models based on pluripotent stem cells. Experimental medicine investigation of patients with genetic mutations will be crucial in this area. This work will be facilitated by the NIHR Exeter Clinical Research facility, which can provide patient specimens from genotyped patients as well as state of the art clinical facilities. Interdisciplinary work will be with our Living Systems Institute.

Summary of post

Professors will be senior academics recognized nationally and internationally for their expertise, drive and ambition in research, education, training and leadership, areas in which they will play major roles within the College. The post holder will be a highly influential and innovative researcher with a large research portfolio and an exemplary current record of research funding and major publications. As a leading international figure they will have the ability to attract substantial, sustained funding and world-class academics to Exeter. They will contribute to the strategic vision of the college across all areas, collaborate with our research centres, work with staff individually to ensure they achieve their potential, and have key roles in developing the research and education culture and international reputation of the University of Exeter Medical School.

Main duties and accountabilities

Research

1. Support the development and implementation of the College research strategy.
2. Lead and co-ordinate research activity in the area(s) outlined above.
3. Manage research and other collaborative partnerships with other educational institutions or other bodies.
4. Lead bids for research, consultancy and other additional funds including leading large collaborative bids.
5. Write publications of the appropriate defined standard or disseminate research findings using media appropriate to the discipline.
6. Lead and develop internal and external networks to foster collaboration and share information and ideas and to promote the subject and the Institution.
7. Contribute to the enhancement of research quality and thinking in the field by being involved in quality assurance and other external decision making bodies.
8. Lead the development of new and creative approaches in responding to research challenges.
9. Plan and implement research projects and monitor progress to ensure the achievement of financial and research objectives.

Communication, Administration and Management

1. Be routinely involved in complex and important negotiations internally and with external bodies, particularly in relation to research, research funding, research governance and consultancy.
2. Participate in Institutional decision making and governance across research and education.
3. Participate in internal and external networks in relation to research and research funding.
4. Promote and market the work of the School in the subject area both nationally and internationally.
5. Exercise academic leadership for all subject area activities - teaching and research, as appropriate.
6. Act as line manager for matters relating to the employment of staff and ensuring the work is allocated fairly, according to skills and capacity.
7. Appraise and advise staff on personal and career development plans and mentor research activity within the discipline/College.
8. Develop and communicate a clear vision of the unit's strategic direction.
9. Promote a collegiate approach and develop team spirit and team coherence.
10. Foster inter-disciplinary team working.
11. Determine the allocation of resources within own area of responsibility.
12. Take overall responsibility for the organising and deployment of resources within own areas of responsibility.

Expertise

1. Be a leading international authority in the subject.
2. Possess in depth knowledge of specialism to enable the development of new knowledge, innovation and understanding in the field and provide educational opportunities.
3. Have a track record of research impact in the field.

Person Specification

1. Be a leading authority in the area(s) outlined above with an international reputation.
2. Hold a PhD or equivalent qualification/experience in the subject or a closely related discipline.
3. Have an outstanding reputation as a research leader and innovator.
4. Be recognised as an excellent educator, locally and nationally.
5. Have demonstrated leadership in the creation, management and delivery of undergraduate and postgraduate programmes.
6. Possess in depth knowledge of the specialism to enable the development of new knowledge, innovation and understanding in the field.
7. Possess a thorough understanding of institutional management systems and the wider higher education environment, including equal opportunities issues.
8. Have a proven track record in leading large funding bids, attracting research and/or scholarship funding, and come with considerable and sustainable funding.
9. Have an excellent record of research outputs of appropriate quality and quantity.
10. Have 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.
11. Ideally be a member of the HEA at Principle Fellow level or above.

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

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.