

ACF IMT Programme Details in conjunction with the University of Manchester

Recruitment to posts starting in August 2022

Post availability

There is one post available in either Gastroenterology OR Endocrinology and Diabetes Mellitus.

- Gastroenterology – You can apply at ST1 or ST2 level in this round of recruitment.
- Endocrinology and Diabetes Mellitus – You can apply at IMT1 or IMT2 level in this round of recruitment.

Please note if you are appointed at ST1 or ST2 level, you will be placed in an appropriate IMT track until you reach ST3 level.

Overview

An ACF offers the ideal track leading to a clinical PhD that launches your career as a clinician scientist. Our programme in Endocrinology & Diabetes (Mellitus) offers an exceptionally diverse, cutting-edge opportunity where previous appointees have enjoyed notable success. Endocrinology & Diabetes offers many advantages as a clinical academic career track by cutting across very many inter-disciplinary research areas and offering a future job plan that lends itself to dual excellence clinically and in research.

You can find generic information about Academic Clinical Fellowships in the North West plus links to the National Institute for Health Research's guidance via <https://www.nwpgmd.nhs.uk/nih-academic-clinical-fellowships-glance>

Academic Training

Academically, the E & D programme is led by Dr Rachel Jennings (Senior Lecturer), who was a previous Academic Clinical Lecturer (ACL) and currently holds a Diabetes UK Harry Keen Intermediate Fellowship. The specialty sits within the [Division of Diabetes, Endocrinology & Gastroenterology](#) at the University of Manchester. We have an extensive roster of MRC, Wellcome and other charity funded clinical PhD registrants who have stepped up successfully from ACF posts. A number of this cohort of nationally recognised clinicians have already progressed onto ACL posts and beyond, publishing their research in the highest impact journals (*New England J Medicine*, *Nature Cell Biology*, *Nature Communications*) as well as our top specialty journals. Most recently, two of our clinicians have been awarded prestigious Medical Research Council (MRC)

Clinical Academic Research Partnerships. Thus, we offer the very best academic training environment across a wide range of top class supervisors, with clear ability to pull trainees through and provide the next generation of clinical academic leaders.

Research Areas / Research Environment

Research in Endocrinology & Diabetes is based at the University of Manchester (UoM) in one of the UK's largest biomedical and health research campuses with state-of-the-art facilities. Research opportunities span from population-based informatics approaches to clinical research through to 'wet lab' science investigating mechanism in model systems. Broadly, research falls into endocrine development, biological timing, and neuroendocrinology; and diabetes, including beta cell function, insulin delivery, glucose sensing and complications. Examples of current research opportunities include developing a single cell epigenomic atlas of the developing human pancreas to probe developmental origins of Type 2 diabetes (T2D); effects of the artificial pancreas on glucose control and sleep in older people with Type 1 diabetes (T1D); integrated multi-omics to investigate the role of biological timing on obesity and diabetes risk; characterising the association between sleep / chronotype with brain function, structure and metabolic disease.

Our expectation is that you will be guided under expert supervision to competitive external doctoral fellowship application (e.g. at MRC or the Wellcome Trust).

Research Facilities

Current research projects within Endocrinology & Diabetes are utilising state-of-the-art core research facilities, including single cell analysis platforms (RNA- and accessible chromatin sequencing, single cell imaging and spatial transcriptomics). The DEG division is leading the University of Manchester Research Institute (UMRI) network in single cell biology, bringing together researchers across disciplines (including bioinformatics, applied maths and data science; www.singlecell.manchester.ac.uk). There are a number of MRC-funded, pure bioinformatics research associates within the division. A number of our researchers are members of the Human Cell Atlas, contributing genome-scale data to this effort. Research into closed loop systems in T1D applies cutting-edge technology and computer science to investigate multi-morbidity. In addition, the division has recently been awarded an Innovate UK grant (~£4.5M), utilising "big data" in the early detection of disease.

Clinical Training

The NW Deanery is home to over 30 ST3+ or higher grade trainees in Endocrinology & Diabetes and ranks in the top quartile of specialties for trainee

satisfaction across the 18 deaneries. The large population and mix of district general and teaching hospitals ensures comprehensive coverage of all aspects of endocrinology such as transitional care, specialist pituitary care, endocrine oncology, endocrine genetics and metabolic bone disease. For diabetes, our patient-centric type 1 diabetes services have ~500 patients on insulin pumps. There are specialist antenatal clinics including services at a dedicated women's hospital. For the care of long-term complications we have joint diabetes renal clinics across the region, an internationally recognised diabetic foot clinic and comprehensive medical and surgical services for diabetic retinopathy. There is a strong research and clinical trial focus on lipid disorders. The region has the second largest simultaneous pancreas-kidney transplantation service in the UK and is a centre for islet transplantation. It is one of only two UK centres for the care of congenital hyperinsulinism.

Specialists in the region are office bearers in our national and international societies.

A monthly educational programme is held for specialty trainees. Specialists in the region are authors of major textbooks and leading authorities on many aspects of Endocrinology & Diabetes. In recent years, we have run a popular course for UK trainees preparing for the Specialty Certificate Examination.

You can find out more about the clinical training programmes in the North West via the following link - <https://www.nwpgmd.nhs.uk/specialty-schools>

Clinical person specifications can be found via the following link - <https://specialtytraining.hee.nhs.uk/Recruitment/Person-specifications>.

Useful Links

<https://www.oriel.nhs.uk/Web/Vacancies>

<https://www.nwpgmd.nhs.uk/nih-academic-clinical-fellowships-glance>

<https://specialtytraining.hee.nhs.uk/Recruitment/Person-specifications>

<https://www.nwpgmd.nhs.uk/specialty-schools>

<https://www.singlecell.manchester.ac.uk/>

Last reviewed: 16/09/2021