

# **ACF Acute Care Paediatric in conjunction with the University of Liverpool**

**Recruitment to posts starting in August 2022**

## **Post availability**

There is one post available with a theme of Acute Care.

You can apply at ST1 level in this round of recruitment.

## **Overview**

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**

The purpose of the Academic Clinical Fellowship training scheme is to develop the academic skills of the trainee and support submission of a successful PhD fellowship application. Applicants who already hold a PhD (or equivalent higher research degree) are welcome to apply and if successful will be supported to apply for post-doctoral fellowships, intermediate career fellowships and National Clinician Scientist Awards.

ACFs in Liverpool will usually take the academic time as one 3 month block in year one and one 6 month block in year two so as to have project data that will support development of their fellowship application ready for submission in year three. ACFs will have opportunities to attend ICAT training events and NIHR training events, some of which are mandatory. ACFs will be supported to attend short courses in research techniques and biostatistics provided by the University of Liverpool.

## **Research Areas**

Research training in Paediatric Clinical Pharmacology and Therapeutics (CPT) centres around the NIHR Alder Hey Clinical Research Facility (CRF). It is fully integrated with Liverpool's leadership and international expertise in Clinical Pharmacology, Therapeutics, Drug Safety Science, Personalised Medicine, Dose optimisation, PK-PD modelling and Liverpool's Paediatric Clinical Pharmacology Training programme.

The NIHR CRF has four 'Clinical Experimental Themes': Musculoskeletal and Inflammation, Oncology, Neurology and Infection. Through the UK's Experimental Arthritis Treatment Centre for Children (EATC4Children), and the LUPUS UK 'Centre of Excellence for Childhood Lupus' we support a platform of

internationally competitive expertise delivering experimental medicine (EM) and early phase (EP) clinical trials in paediatric rheumatology. One position will be aligned with the Musculoskeletal and Inflammation Therapeutics theme and allow for training and the development of a research programme focussing on systemic autoimmune/inflammatory disease. The successful candidate will be part of the EATC4Children's multi-disciplinary academic team, including clinical scientists, post-graduate students, and laboratory-based scientists that covers the entire spectrum from early- to late-phase translational science, and timely implementation into clinical studies and routine.

Infection research is supported by grant funding from the EU H2020 programme, Wellcome Trust, and NIHR. The Centre of Excellence in Infectious Diseases Research (CEIDR) aims to develop innovative healthcare and medical technologies in infection, to improve national and global healthcare through collaboration between the University and the Liverpool School of Tropical Medicine. We also work in partnership with the Wellcome Trust Liverpool Glasgow Centre for Global Health Research (WTCGHR), and a number of previous ACFs have been successful on in gaining PhD fellowships. Infection research themes include: host immune response in invasive bacterial infections, early detection of life-threatening infection;, early recognition of deterioration and -omics characterisation of clinical bacterial isolates.

International Child Health holds a strong research portfolio focused on nutrition and neurological development. International Child Health and Paediatric Infection investigators hold EU H2020, Wellcome Trust, NIHR and Gates Foundation grants that are active in the UK, Sierra Leone, Malawi, Gambia, Uganda, Pakistan, India and Nepal. Much of our research is delivered in partnership with Alder Hey Children's Hospital and the Liverpool School of Tropical Medicine. We work closely with the Reproductive and Maternal Health Unit at the University of Liverpool who also undertake research in several low and middle-income settings. Our centre links closely with the Institute of Psychology, Population, Health and Society through the collaborations with Professor Atif Rahman who has an extensive programme of work in Pakistan and India looking at maternal mental health and its effects on infant's growth and development as well as now new intervention programmes within child mental health.

We are the only NHS Health Education England region that supports accredited international placement for Integrated Clinical Academic Trainees.

Medical Education. Alder Hey Children's Hospital (AHCH) is the largest sole provider of Paediatric healthcare in Europe and a recognised hub for postgraduate training in Paediatrics and Child Health in the UK. The Institute in The Park at Alder Hey is a new £25M Research, Education and Innovation facility allowing academics and clinicians to interact to serve the learning needs of undergraduate and postgraduate students. Paediatrics has already established an ACF in Medical Education.

## **Research Areas / Research Environment**

**Rheumatology/Immunology** (Supervisor Prof Hedrich). The paediatric rheumatology research programme aims at improving diagnosis, treatment, and outcomes in children with autoimmune/inflammatory disease. Scientific programmes spanning the entire spectrum of translational research from bench to bedside and back will allow the successful candidate to gather experience in a wide range of scientific approaches and experimental techniques. The research Group has national (among others GOSH, Universities of Bristol and Sheffield, etc.) and international (among others Utrecht Eureka institute, NL; University of Iowa, USA; BIDMC, Boston, USA; TU Dresden, Germany, etc.) collaborations catalyzing local efforts and allowing a “life course” approach to inflammation research.

**Paediatric Infection** (Supervisor Prof Carrol). The paediatric infection research programme employs a multidisciplinary approach to improving diagnosis, prognosis, and risk stratification, to deliver better outcomes. Underpinning science spans the whole translational spectrum including proteomics, metabolomics, genomics, microbial epidemiology, clinical trials, social sciences, health economics, and implementation science. ACFs will join research projects using novel approaches, e.g. embedded mechanistic studies for risk stratification in RCTs, spectroscopy for characterisation of bacterial isolates, and multi-omics integration for diagnostic discrimination of bacterial/viral infection. The research Group has active collaborations internationally with European research groups part of the PERFORM and DIAMONDS consortia, and Malawi Liverpool Wellcome Clinical Research Programme.

## **Research Facilities**

The Child Health Research Team is based at the new Alder Hey Children’s Hospital, a £300M facility that opened in 2015 and the Liverpool Women’s Hospital. Paediatricians, Children’s Nurses and Allied Professionals at Alder Hey constitute one of the largest and busiest dedicated provider of child healthcare in Europe, delivering >275,000 episodes of care each year, including 65,000 children seen in the Emergency Department. Alder Hey provides secondary care to young people of Liverpool, tertiary care to the North West of England and quaternary care to international referrals. It is a regional paediatric cardiac and trauma centre with a 23 bed Paediatric Intensive Care Unit.

The ‘Institute in the Park’ at Alder Hey Hospital is a new, state-of-the-art facility which brings together Academic and Clinical strength in a Research, Innovation and Education facility.

The NIHR Alder Hey Clinical Research Facility provides a dedicated early phase research environment within the Trust. The outstanding research and education facilities include molecular, protein and imaging laboratories, biobanking capacity, library, medical education rooms, flexible study areas and simulation suites. Together Alder Hey and The Institute provide the hub for Regional and International Education in Paediatrics and Child Health teaching and postgraduate paediatric medical education.

## **Clinical Training**

All ACF posts in Liverpool include NHS clinical training posts in general paediatrics, neonates and community paediatrics to enable trainees to cover core (any 3 consecutive years of ST1-4) training in Paediatrics during the three-year post. During NHS clinical training posts, the ACF will be included in the general paediatric on-call rota, however these posts are supernumerary to the overall training cohort. This permits academic time to be fully protected.

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/nihr-academic-clinical-fellowships-glance>

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

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

<https://www.liverpool.ac.uk/integrated-clinical-academic-training/about/>

<https://www.perform2020.org/>

<https://www.diamonds2020.eu/>

<http://www.batch-trial.co.uk/>

[Home - Wellcome Trust Liverpool Glasgow Centre for Global Health Research \(liverpoolwttc.org.uk\)](http://www.wellcome-trust.org.uk/liverpool-glasgow-centre-for-global-health-research)

[Experimental Arthritis Treatment Centre for Children - University of Liverpool](http://www.eatc.org.uk)

[NIHR Alder Hey Clinical Research Facility :: Alder Hey Children's Hospital Trust](http://www.nihr.ac.uk/about/clinical-research-facilities/alders-hey)