Job Description for NIHR Academic Clinical Fellowship in Intensive Care Medicine (Clinical Therapeutics & Pharmacology & Industry Theme) <ST3>

1. Job Title.
NIHR Academic Clinical Fellowship in Intensive Care Medicine (Clinical Therapeutics & Pharmacology & Industry Theme) at King's College London

2. Duration, timelines, and eligibility of post.
Applications are sought for a 3-year, Academic Clinical Fellowship (ACF) position in Intensive Care Medicine. Candidates should be appointed to the Intensive Care Medicine (ICM) clinical specialty training program at the time of starting the ACF post. Following completion of the ACF post, the fellow will continue ICM specialty training. Applicants wishing to dual train in another clinical specialty in addition to the ACF post in ICM should contact the ICM academic TPD to ensure timelines for clinical and academic training are planned in advance

3. Research institutions in which training will take place
King's College London (KCL)

4. Timetabling of clinical and research time
The posts are three years long with nine months of protected research time integrated into the clinical rotation timetable. Integrated medical training rotations are the same as for non-academic positions. Research time may be split into three-month blocks or may be aggregated into a six-month unit and three-month units or a single block.

5. Description of research component of programme
The ACF will be based in the Centre for Critical Illness Research, a cross-faculty centre for academic excellence, focusing on critical illness. CCIR brings together interprofessional academics and clinicians to translate early scientific breakthroughs into effective prevention, diagnosis, and treatment strategies for critical illness and to enable healthy critical illness survivorship for children and adults.

CCIR, a King's Health Partners endeavour, is embedded within **Faculty of Life Sciences & Medicine** at King's College London. CCIR is the primary academic link to the Clinical Departments of Critical Care within the three King's Health Partners partner NHS Foundation Trusts - Guy's and St Thomas', King's College Hospital and South London and Maudsley. Professor Manu Shankar-Hari is Director of CCIR and NIHR Senior Investigator.

Across King's Health Partners organisations, we have an unparalleled breadth of clinical critical care expertise consisting of ~250 critical care beds, ~2000 healthcare professionals, multiple commissioned clinical services and a complete portfolio of medical and surgical specialties. We serve one of the most ethnically, socially and economically diverse patient population of ~8 million.

CCIR mission is translational research without boundaries to generate lasting health benefits for patients and families facing critical illness. CCIR mission is delivered by:

- Undertaking biological, physiological, applied clinical, and implementation research
- Providing actionable insights to inform national health policy
- Supporting capacity building and empowering the next generation of clinical academics

CCIR research focus areas:

• Patient and family-centred care
• Ethics and clinical decision-making
• Acute organ failure and extracorporeal technologies
• Sepsis, pandemic sciences and host-response biology
• Health services research, policy and practice

Research projects in CCIR:

- Sepsis, pandemic sciences and host-response biology
- Acute organ failure and extracorporeal technologies
- Ethics and Clinical decision-making
- Health services research, policy and practice
- Patient and family-centred care
- Paediatric extracorporeal technologies
- Optimising care of children with critical illness
- Infection, Inflammation and Immunology
- Paediatric airway
- Critical care nephrology in Children
- Critical care Hepatology in Children
- Neurocritical care in children
- Paediatric transport medicine and critical care advanced nurse practitioner development
- Point-of-Care Ultrasound (POCUS) in Paediatric Critical Care
- Ethical and legal aspects of clinical decision making and end of life care

Research Theme: Clinical Therapeutics and Pharmacology and Industry

The development of new therapeutics is fundamental to improving health outcomes and is a strategic priority across KHP. Our approach integrates three key areas:

- Understanding the mechanisms of disease in humans to identify targets/assess potential toxicities
- Developing new therapeutic approaches (particularly advanced therapies)
- Conducting robust data-driven, information-rich early-phase clinical studies of these therapies.

King's has a substantial therapeutics development portfolio encompassing >1600 active portfolio trials, reflecting capacity for innovation and training opportunities across multiple disease areas. This ecosystem is supported by our KHP Centre for Translational Medicine (>£25M) and NIHR Maudsley BRC (£47M) providing an overarching structure to coordinate research, funding and training for emerging clinician scientists.

Research areas

ACFs gain experience in a comprehensive array of methodologies tailored to clinical pharmacology and therapeutics development. We have strong partnerships with industry – major pharma companies, biotech, SMEs/spinouts- and many IAT projects include opportunity for collaboration.

Innovative/interdisciplinary approaches
Innovation in this theme incorporates cutting-edge therapeutic modalities, particularly cell and gene therapies, next-generation antibody therapies, psychoactive substances, novel therapeutic targets and/or objectives (e.g. miRNAs for cardiac regeneration) advanced patient phenotyping/analysis e.g. multi-modal spatial data and innovative trial designs (adaptive Bayesian early-phase studies). Interdisciplinary approaches include engineering/physics interfaces in medical imaging and devices, chemistry interfaces in therapy delivery, and maths/statistics for trial design. Examples include:

- Understanding CAR-T cell toxicity using Total Body PET
- Hyperspectral imaging in brain cancer surgery
- Fetal cardiac imaging for early identification of heart defects in infants

6. Description of clinical training component of programme

Wherever possible, trainees will be placed within the Kings College Hospitals NHS trusts or area of London for clinical and academic placements, to improve continuity of training and their research productivity. Clinical training opportunities will be matched to the needs of each trainee. Placements will be monitored to ensure high-quality training and educational supervision. The ICM training programme is Pan London and trainees may need to be placed in different London hospitals according to their clinical training needs.

Stage 1: Clinical placements will be designed to deliver experience in Medicine, Anaesthesia and ICM. ST3 and ST4 posts will be allocated flexibly to provide the most balanced trainee portfolio as per the CICM curriculum. This will take into account each trainee's previous core training and specialty training stage level upon entry into the ICM programme, their future career plans, and designated academic centre.

Stage 2: The programme will provide excellent ST5/6 level opportunities for training in neuro, cardiac and paediatric ICM in 3-month block pro rata. These will be in centres of excellence across the whole of London, with placements at or in the closest available centre to the trainee's academic hub.

Stage 3: ST7 ICM training will occur after completion of the ACF post. This period will enable the trainee to develop their leadership and management skills to fulfill a role as an ICM consultant.

Ideally the ACF will have a structured programme with 3 blocks for example: (a) 6 months block spent in research (b) 6 months in clinical and (c) the final 3 months in research. The ACFs are expected to spend the final three-month block writing grant applications and/or publications. The ACFs will be supported to generate PhD funding applications. These clinical blocks will depend on each ACF's clinical stage curriculum requirements, which will be tailored to the ACF with consultation between respective TPD, Research Supervisor and ACF.

Upon joining the ACF programme, yearly ARCPs (Annual Review of Competency Progression) will occur along with annual review of research progression to ensure clinical training requirements are met according to the FICM curriculum.

7. Academic Programme Director name
Dr. Nish Arulkumaran (ICM Academic Training Programme Director) n.arulkumaran@nhs.net

8. Clinical Programme Director name
Dr Charlotte Anderson (Head of School) charlotte.anderson31@nhs.net

Dr Louise Ma (Stage 1 ICM Training Programme Director) louise.ma1@nhs.net
Dr Jonathan MacKenney (Stage 2 ICM Training Programme Director) jonathan.mackenney2@nhs.net
Dr Viplaw Shukla (Stage 3 ICM Training Programme Director) viplaw.shukla1@nhs.net

9. Programme contact for further information (phone or email)
Prof Manu Shankar-Hari (Integrated Academic Training Lead) manu.shankar-hari@kcl.ac.uk
Prof Nick Hart (Clinical Research Lead) nicholas.hart@gstt.nhs.uk

10. NHSE contact:
Specialty Team https://lasepgmdesupport.hee.nhs.uk/support/home
Recruitment Enquiries - https://lasepgmdesupport.hee.nhs.uk/support/home

11. Useful websites for further information IAT Guide | NIHR
https://www.nihr.ac.uk/explore-nihr/academy-programmes/integrated-academic-training.htm

12. Confirmation that the post attracts an NTN (A)
Yes

This job description was prepared on 31-July-2026