



## Post-doctoral Research Associate in Preclinical Liver MRI

<https://www.kcl.ac.uk/jobs/106765-post-doctoral-research-associate-in-preclinical-liver-mri>

Salary: £44,105 - £51,485 per annum including London Weighting Allowance.

Closing date: 23 February 2025.

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### Institution & Location

Based at St Thomas' Hospital in central London, this role is housed within the School of Biomedical Engineering & Imaging Sciences at King's College London, with experimental work conducted at the James Black Centre (Denmark Hill Campus). You'll work alongside world-class researchers and leverage unique facilities, including multiple clinical MRI scanners (0.55T, 1.5T, 3T, 7T), a 9.4T preclinical MRI scanner, a Liver Biobank, state-of-the-art laboratories, high-performance computing, and industry collaborations via the London Institute for Healthcare Engineering.

### About the Role

Join Dr Andrada Ianus's team to advance an ERC Starting Grant funded project aimed at developing innovative MRI methods for detecting and characterizing liver micrometastases in cancer. Your responsibilities will include:

- Developing and implementing advanced preclinical MRI techniques.
- Conducting in-vivo mouse liver imaging (both in normal and metastatic models) and ex-vivo MRI of human liver tissue specimens.
- Managing sequence implementation, data acquisition, and analysis, including biophysical modelling of liver tissue.
- Coordinating with the Liver Biobank at King's College Hospital for tissue sample research.

This full-time (35 hours/week) post is offered on a fixed 3-year contract.

### About You

#### *Essential Criteria:*

- PhD (or near completion) in Biomedical Engineering, Medical Physics, Medical Imaging, or a related field.
- Strong foundation in MRI theory, data acquisition, and mathematical modelling.
- Proven practical research experience (e.g., publications in refereed journals) and proficiency in MATLAB, Python, or similar languages.
- Motivation to work with animal models, along with a self-driven, independent yet team-oriented work ethic.
- Excellent communication skills for presenting research findings and participating in meetings.

#### *Desirable Criteria:*

- Experience with in-vivo preclinical MRI of rodents and MRI sequence programming on preclinical scanners.
- Familiarity with animal research ethics, procedures, and possession of a Project Individual License.
- Proven record of working in a multidisciplinary research environment.

If you're ready to contribute to pioneering translational healthcare research using cutting-edge imaging, we encourage you to apply.