

## MRI technician at the Research Group Molecular Imaging for Precision Medicine in Barcelona



### **Introduction to the vacant position:**

The Molecular Imaging for Precision Medicine (MIPMED) is looking for an MRI technician to join our team and assist in the operation of a 3T Bruker BioSpec and a 7T Bruker BioSpec with cryoprobes.

The ideal candidate will have substantial experience in conducting mouse in vivo MRI experiments. Familiarity with  $^{13}\text{C}$  MRSI and hyperpolarization techniques is a significant advantage. This role requires strong technical skills, attention to detail, and a commitment to supporting scientific research.

Our group develops hyperpolarized NMR/MRSI tools to study cellular metabolism in vitro and in vivo, with particular interest in organ-on-chip platforms and microfluidic devices.

### **Main tasks and responsibilities:**

- Conduct and assist with mouse in vivo and in vitro organ-on-chip MRI and MRSI experiments.
- Operate and maintain MRI scanners, including setup and calibration of equipment.
- Apply advanced MRI techniques and protocols, including  $^{13}\text{C}$  MRSI and hyperpolarization methods when applicable.
- Troubleshoot and resolve technical issues related to MRI equipment and imaging procedures.
- Maintain accurate records of imaging protocols, equipment settings, and experimental data.
- Collaborate with researchers to interpret imaging results and contribute to the preparation of scientific reports and publications.
- Train and assist researchers and students in MRI techniques and equipment usage.
- Present findings and updates at team meetings and contribute to the dissemination of research results.
- Foster a collaborative and inclusive lab environment.

### **Requirements for candidates:**

#### **Essential:**

- Associate's or Bachelor's degree in Radiologic Technology, Biomedical Engineering, or a related field.
- Minimum of 2-3 years of experience in conducting MRI experiments.
- Proficiency in operating MRI scanners and related imaging software.
- Strong technical and problem-solving skills.
- Excellent organizational and record-keeping abilities.
- Ability to work collaboratively in a research team environment.
- Good communication skills and a commitment to maintaining high ethical standards in animal research.
- High level of English

#### **Advantageous:**

- Experience with  $^{13}\text{C}$  MRSI and hyperpolarization techniques.
- Experience with Bruker BioSpec and Paravision 360.
- International experience.

### **How to apply:**

Interested applicants should send their CV, cover letter and the contact of two referees to: [imarco@ibecbarcelona.eu](mailto:imarco@ibecbarcelona.eu). In your cover letter, please describe your experience in hyperpolarization techniques, programming, and pulse sequence development, as well as your approach to mentoring and training students. Applications will be reviewed on a rolling basis, and candidates will be considered until the position is filled.