

POSTDOCTORAL RESEARCH POSITION: PLACENTAL METABOLIC MRI

The McKenzie Lab within the Department of Medical Biophysics at Western University, London, Ontario is inviting applications for a 1-2 year Postdoctoral Research Fellowship to oversee experiments related to fetal-placental imaging with hyperpolarised MRI techniques.

The main objectives of the project are to investigate changes in fetal and placental metabolism resulting from environmental factors such as maternal health and diet. Current studies include animal models of the effects of diet and growth restriction on the placenta. Upcoming studies may include examination of these effects and possible interventions on the fetus. Our laboratory has access to 1.5T and 3T GE scanners, and a Hypersense ^{13}C dynamic nuclear polarizer. This project has support from both CIHR and the NIH.

We are seeking candidates with a strong background in *in vivo* hyperpolarised MRI methods. Experience with ^{13}C image analysis would be highly desirable. Animal handling skills and experience working with fetal and/or placental imaging would be an asset.

Applicants must have a PhD in biomedical engineering, physics, biochemistry, or a related field. Candidates should have strong data analysis skills.

The candidate is expected to be self-motivated and work independently, as well as be part of a focused multi-disciplinary team. The post-doctoral researcher will have opportunities to develop new ideas and advance their own research interests, as well as publish their work and that of the group. Some supervision of junior students will be expected.

To apply, please send your CV and a statement describing your research interests, career goals and contact information for 2-3 reference letters to: cmcken@uwo.ca.