Postdoctoral Fellow Position for Fetal and Placental MRI Research

Developing Brain Institute
Children’s National Hospital, Washington DC

We are seeking a highly motivated postdoctoral fellow to perform advanced MRI research of the fetal brain and placenta. This project includes development and validation of perfusion and oxygenation imaging of the human placenta in pregnancies at high risk using non-invasive techniques such as arterial spin labeling (ASL) and quantitative susceptibility mapping (QSM). This position is available immediately and the expected duration is from 2-3 years. The position is supported by NIH/NICHD Human Placenta Project initiative (R01HD100012. PI: Zun).

Facilities:
Successful candidate will have the opportunity to collaborate with a multidisciplinary team of engineers, scientists, radiologists, neurologists, and neonatologists. Facilities include three human MRI systems (two 1.5 T and one 3.0 T GE Discovery scanners), and a 20-node computational cluster running Linux, each equipped with multicore CPUs and GPU capabilities.

Qualifications:
Candidate must have a PhD degree in electrical engineering, biomedical engineering, physics, or in a related field with a strong understanding of MR physics and image reconstruction algorithms. Knowledge of MATLAB programming and Unix/Linux computers is required. Experience with MR pulse sequence programming or knowledge of C/C++ is preferred.

To apply:
Please send a cover letter, CV, and contact information for three references to zzun@childrensnational.org.

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