Position Title: Post-doctoral Fellow/Research Associate in Animal Neuroimaging

Description: A funded postdoctoral fellow/research associate position is available in the laboratory of Dr. Nobuyuki Ishibashi through the Center for Neuroscience Research at Children's National Health System (CNHS) in Washington DC. The laboratory carries out basic and translational research using novel animal models to investigate the impact of Congenital Heart Disease on Brain Development.

The full-time research scientist will work on our NIH-funded project. Tools for state-of-the-art imaging together with cutting edge cellular/molecular analyses are available to address clinically relevant questions in neurodevelopment using preclinical piglet model. Piglets are powerful model organisms to study human brain development because they possess a highly evolved, gyrencephalic neocortex. In addition there are many spatiotemporal similarities between human and porcine brain development. Bruker 7T AVIII magnet with custom 90mm quadrature volume coil and Bruker 9.4 AVI vertical bore AVI system are available at the animal imaging core.

Please visit https://childrensnational.org/research-and-education/center-for-neuroscience-research/research-laboratories/Ishibashi to learn more about our research.

The fellow/associate will join a collegial, collaborative and highly productive department studying development and function/dysfunction of the CNS. Candidates should be highly motivated and focused. Desired qualifications include:
- PhD, or equivalent degree in Biophysics, Biomedical Engineering, Neuroscience
- Experience with preclinical MRI
- Matlab programming experience (beneficial, but not necessary)
- Diffusion tensor image acquisition and analysis (beneficial, but not necessary)
- rsFMRI image acquisition and analysis (beneficial, but not necessary)
- Connectivity analysis (beneficial, but not necessary)

Applicants should submit:
- CV with publications,
- Statement of research interests and experience, and
- Letters from three references to

Nobuyuki Ishibashi, M.D.
Investigator of Center for Neuroscience Research
Director of Cardiac Surgery Research Laboratory
The Foglia-Hills Professor of Pediatric Cardiac Research
Children's National Health System
nishibas@childrensnational.org