Postdoctoral Scientist Position Available - Join Us in the City of New York!

Siemens IDEA Sequence Programming for Clinical Research

We are seeking a sharp, well-trained and enthusiastic individual to complement our team at the Magnetic Resonance Scientific Engineering for Clinical Excellence (MR SCIENCE) Laboratory in the Departments of Biomedical Engineering and Radiology at Columbia University in the City of New York.

The focus of the positions will be on the design and implementation of MR sequences on Siemens (IDEA) MR platforms. Projects will involve independent research as well as collaborative efforts aiming to develop state-of-the-art MC/RF hardware as well as MR imaging & spectroscopy methodology.

Check out our website for ongoing research or contact me directly. Two relevant projects are:

- MC/RF hardware for diagnostic radiology (NIH R01-EB03056, 4 years, PI: Juchem): Dynamic Multi-Coil B0 Shimming for Diagnostic MRI of Frontal Brain
- Real-time MR spectroscopy for psychiatry (NIH R01-MH126133, 5 years, PIs: Spann/Scheinost/Juchem): Establishing early brain signatures associated with maternal immune activation

Minimum Experience and Skills:

- MR sequence design and implementation on Siemens (IDEA) systems
- PhD in chemistry, physics, biomedical engineering or related discipline
- Strong research record and excellent verbal and written communication skills
- Proficiency with programming languages (MATLAB/Python, C/C++, Bash etc.)
- Ability and willingness to work in an interdisciplinary team environment

Desirable Experience and Skills:

- Motion correction
- Siemens ICE
- Hands-on in vivo MRI / MRS / MRSI experience
- Clinical research

Members of our laboratory regularly attend international conferences and workshops, and enjoy ample opportunity for career development and professional growth both inside and outside the laboratory.

The position is available immediately. CV and potential further inquiries should be sent directly to me (cwj2112@columbia.edu). Review of applications will continue until the positions are filled.

Best wishes,

Christoph Juchem, Ph.D.
Associate Professor
Biomedical Engineering & Radiology
Columbia University in the City of New York