Search for Post-docs and staff PET physicists

Position Overview

Siemens Healthineers Molecular Imaging is seeking PET scientists to join its PET Physics and Reconstruction research group, as post-doc or staff scientist, depending on the experience. The positions are for experimental physicist and reconstruction physicist.

General responsibilities and tasks are below:
- Supports the technology/innovation roadmap of the PET Physics and Reconstruction team
- Participates in publication of results at conferences and in peer-reviewed journals
- Protects innovations with invention disclosures
- Travels both internationally and domestically for customer visits and conferences

General required Knowledge/Skills, Education and Experience
- Detail oriented and organized, excellent communication skills, written and oral
- Outstanding ability to work independently, be creative, overcome obstacles

Experimental physicist track 1, Responsibilities and Tasks
- Supports instrumentation innovation development at all levels: detector, analog electronics, digital electronics, acquisition computer and system level
- Supports data acquisition and data analysis on bench experiments and prototype scanners
- Develops Monte Carlo simulation of complex PET systems

Experimental physicist track 1, Education and Experience
- Ph.D. in physics /electrical/nuclear engineering or related experimental field
- Experience in a research environment in one of these experimental physics fields: PET, SPECT, radiation physics, nuclear physics, particle physics, or related field.
- Experience in multiple programming languages
- Experience in Monte Carlo simulation of radiation physics, in particular Geant4, GATE, or EGS4 (preferred)

Reconstruction physicist track 2, Responsibilities and Tasks
- Supports software innovation development at all levels: PET data corrections; image reconstruction algorithms, both analytical and statistical, design, implementation and optimization; image processing.
- Supports research in the field of artificial intelligence for PET reconstruction

Reconstruction physicist track 2, Education and Experience
- Ph.D. in physics, mathematics, electrical/nuclear/computer engineering or related fields
- Experience in multiple programming languages, including at least C++
- Strong mathematical background (preferred)
- Experience in artificial intelligence, neural networks, and related topics (preferred)

For information contact:

Vladimir Panin
Sr. Key Expert, Physics and Reconstruction
Research and Clinical Collaborations
Siemens Healthineers Molecular Imaging
810 Innovation Drive
Knoxville, TN 37932, USA
Tel: +1 865 218-2272
Mobile: +1 865 368-7086
email: Vladimir.Panin@siemens-healthineers.com