

June 1, 2019



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:

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