



**HELSINKI INSTITUTE
OF PHYSICS**



**UPPSALA
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Vacancy in the Monte Carlo simulation project POSEIDON

Helsinki Institute of Physics / Uppsala University

The POSEIDON project (Position-sensitive detectors for nuclear fuel imaging) is a collaboration between the Helsinki Institute of Physics at the University of Helsinki and the Department of Physics and Astronomy of Uppsala University. We aim to establish the benefit of 3D position-sensitive detectors for PGET applications such as the imaging of spent fuel, fuel irradiated in the context of the development of new reactor designs, fuel pin containers and nuclear waste. The project is funded by NKS, the Nordic Nuclear Safety Research forum.

We are looking for an expert in Geant4 Monte Carlo simulations to join a feasibility study of passive gamma emission tomography (PGET) using 3D position-sensitive semiconductor detectors. The successful candidate will be hired at the University of Helsinki and mostly based in Helsinki. Research visits to Uppsala will be arranged. We aim to hire someone at the postdoc level, but advanced PhD students will be considered as well. The duration of the appointment, depending on the level of hiring, ranges from about 6 to 12 months. An extension of the project of up to 2 years beyond this duration is planned. In case the project is extended, the work contract will be extended as well in case of good performance.

If you are interested in this position and wish to know more or apply, please contact Prof. Peter Dendooven (peter.dendooven@helsinki.fi) or Dr. Peter Andersson (peter.andersson@physics.uu.se).