

August 24, 2020

RESEARCHER (MSc or POSTDOC) in Physics or Engineering Physics (1fte) for a project to develop a radiation&imaging preclinical research platform.

What are we looking for: Physics researcher and software developer

We are looking for a dynamic co-worker, preferably a recent graduate with a MSc degree in physics, or engineer in physics. Candidates with a relevant PhD will also be considered. **Ideally, you have knowledge of system development and advanced computer programming skills.** You should be excited about working in an R&D company, in close collaboration with the academic world. You should have an excellent study record and be willing to work in a small highly motivated team. You should be willing to relocate to the region around Maastricht (which is also close to Germany and Belgium). Knowledge of the Dutch language is not a requirement. You should be fluent in English (written and spoken). EU applicants will be given priority.

Which project do we offer:

We recently started a new project, IRRADION, co-funded by the EU, where we are developing a novel radiation research platform for preclinical cancer studies with small animal models. The platform uses small robots to perform CT imaging and proton tomography. The system will be able to irradiate with precise photon beams and can be docked to a clinical proton beam for irradiation with protons. The final result will be a unique prototype system that will revolutionize radiation research in oncology and other fields. The project is in collaboration with the University of Maastricht and Czech company Radalytica (<http://www.radalytica.com/>), where other team members are employed with whom you will work closely together. The position we are offering will focus on development of software for dose calculation for proton irradiation, and for proton imaging. The project will lead to a commercial product in the coming years.

Who are we: SMART Scientific Solutions BV is an expanding Dutch company in the field of biomedical research&development, specialized in radiation dose calculations, where we play a leadership role. We focus on preclinical research. Our company is based on the Maastricht Brightlands Campus, and we work in collaboration with Maastricht University in Maastricht, the Netherlands. Visit us on www.smartscientificsolutions.com

What do we offer:

We offer a 12 month contract in this exciting project, with a potential extension for another year or permanent position afterwards. Salary is between 2750€ and 3500€ gross per month, depending on experience. The package includes an 8% vacation pay, 4 weeks vacation, with 6 additional fixed vacation days. If you are a foreigner, you may qualify for the 30% tax ruling if you live 150km away from the Dutch border. Relocation expenses will be reimbursed up to a maximum of 3000€. The possibility exists to obtain a PhD out of the work, due to the strong link with the University of Maastricht on the same campus.

Further information and applying for this position:

Please contact prof Dr Frank Verhaegen by e-mail: frank.verhaegen@smartsscientific.nl or by calling +32-474-720570, preferably before September 11.

Sketch of IRRADION setup: a platform for combined photon/proton irradiation and photon/proton imaging. This platform is for preclinical research (mostly cancer models in rodents). The yellow beam is a photon beam used for imaging and irradiation. The red arrow is a proton beam, also used for imaging and irradiation. Highly advanced TimePix-3 imaging sensors (CERN technology) and other advanced technology such as robotics is used in this platform.

