

Vacancy 178/35/011

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The UHasselt contributes to the knowledge economy in the Euregion. Active tutoring, made to measure for the students, topquality research in specific domains and an international orientation are our university's characteristics.

Owing to its small size, the university and its employees are building up to an organisation together where it is a pleasure to work. Qualities are the only means by which people are measured. Gender, ethnicity, handicap, nationality and age are not taken into consideration.

**The Faculty of Engineering Technology, capacity group Engineering Technology, research institute
Research Institute: Centre for Environmental Sciences, research group Nuclear Technology Centre of
Hasselt University seeks a (m/f)**

PhD student in small animal precision image-guided irradiation

Background

NuTeC and MAASTRO LAB decided to combine their knowledge on this project. NuTeC (Nuclear Technological Centre), part of the Centre for Environmental Sciences, embedded within the Faculty of Engineering Technology at Hasselt University (www.uhasselt.be/nutec) brings the engineer point of view and its expertise and network around medical dosimetry. MAASTRO LAB (www.maastralab.nl), a basic and translational research laboratory, embedded within the GROW research institute of the Faculty of Health, Medicine and Life Sciences ([www.grow-um.nl](http://www.grow.um.nl)) at Maastricht University (www.maastrichtuniversity.nl) has carried out research on PET/CT imaging, dual energy CT imaging, 4D ultrasound imaging for treatment verification, dose guided radiotherapy, small animal radiation research, and proton therapy and is presently focusing on the tumour microenvironment, in particular hypoxia, immunotherapy and normal tissue toxicity, for radiation oncology.

Job content

In this position you will carry out research in the field of small animal radiation studies for translational research. MAASTRO-LAB is equipped with a small animal irradiation/imaging facility. The emphasis of your work will be on developing technology, focusing on bioluminescent imaging and on preclinical studies in the context of precision image guided irradiation of animal models for cancer research. We have developed our own small animal treatment planning system (SmART Plan), which now needs to be integrated with various imaging modalities (CT, dual energy CT, bioluminescent imaging, and to a lesser extent PET and MRI). The candidate will be supervised by senior scientists from Maastricht and UHasselt. You will operate in a multidisciplinary team of physicists, biologists, physicians and engineers from both universities who share great enthusiasm for preclinical research.

Profile

- We are looking for a biology-minded physicist or engineer with: Strong Masters degree (GPA at least 3.5/4) in Biomedical Sciences, Physics or Biomedical Engineering or engineering technology. Final-year students are (likewise) encouraged to apply.
- Able to work with animals (Felasa certified or passed sufficient biology-related courses enabling to acquire this certificate is a plus)
- Very fluent in spoken and written English. Knowledge of the Dutch language is not necessary.
- Able to work both independently and in an interdisciplinary team
- A strong interest in preclinical radiotherapy, advanced animal imaging and translational research
- Good relational, communicative and reporting skills
- Experience in software development (physicist/engineer)

Offer

You will be appointed and paid as [PhD student](#).

We offer a 2x2-year fulltime contract with an evaluation after 2 years.

Selection procedure

All candidates who meet the requirements are invited to take a test. Successful candidates are invited to participate in the selection interview.

You have to provide two letters of reference upon selection.

Application

You can only [apply online](#) up to and including **15 November 2017**.

Further information

Content job responsibilities:

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Prof. dr. Ludwig Dubois, , ludwig.dubois@maastrichtuniversity.nl

Prof. dr. Frank Verhaegen, , frank.verhaegen@maastro.nl

More about working at Hasselt University? Check www.uhasselt.be/vacancies!



Hasselt University has a long tradition of paying attention to research careers. In recognition of this, the European Commission granted Hasselt University in 2011 as the first Flemish university with the right to use the 'HR Excellence in Research' logo.