



Universitair Ziekenhuis Brussel

Universitair Ziekenhuis Brussel is recruiting a (m/f):

Medical Radiation Physicist (m/f)
Radiotherapy Department

The radiation oncology department of the Universitair Ziekenhuis Brussel (UZ Brussel) has achieved international recognition for the continuous efforts in the realization of its mission which is “to offer the optimal and most efficient radiation therapy tailored to the individual patient, through development and clinical implementation of novel irradiation techniques and radiobiological concepts.”

In this optic, the radiotherapy department of UZ Brussel applied for a Strategic Research Program (SRP) at the Vrije Universiteit Brussel (VUB) and was granted as a spearpoint project for the coming 5 years. The proposed research program aims at developing “Markerless SBRT tracking for lung and liver tumors”. In addition, a predictive model, based on quantitative imaging techniques (e.g. radiomics) and clinical-immunological parameters, will be developed to prescribe a patient-individualized radiation dose. The technical developments and implementations will be performed on 3 new high end Linacs that will be installed in 2019–2020.

To reinforce the team of Physicists, the Radiotherapy department of UZ Brussel is looking for a medical physics expert that wants to be part of this challenging clinical and technical advancements in order to make SBRT available to a broader patient population while improving its efficiency.

Role:

1. Supporting the clinical tasks within the Medical Physics team:
 - Dosimetry and patient specific pre-treatment verification.
 - All-round general knowledge of IT and network management.
 - Quality control of the medical equipment.
 - Application and supervision of external beam radiotherapy treatment planning.
 - Application and verification of special treatment techniques, including: Total Body Irradiation (TBI), Stereotactic Radiosurgery, Hypofractionation and Breathing-Synchronised Irradiation techniques, and Intensity-Modulated Radiation Therapy (both stationary and rotational).
 - Development, validation and clinical implementation of Image-Guided Radiotherapy.
2. Managing projects involving the implementation and development of novel techniques.
3. Participating to the granted SRP project on markerless SBRT.

Profile:

- Possessing a Masters Degree in Physics, or in Engineering Sciences option Medical Radiation Physicist, or in Industrial Sciences option Nuclear Technology.
- Being certified as a Specialist in Radiation Physics in the area of RADIOTHERAPY is preferable.
- Understanding the specifics related to the medical sector and a strong interest in the patients' wellbeing.
- Flexible and able to work independently and in team.
- Analytical mind, scientific orientation and problem solving skills.
- Good communication skills in a multi-disciplinary environment. If Dutch is not your mother tongue, you are prepared to learn this language in a short term.

The Offer:

All our staff members are granted numerous benefits, including healthcare, pension, meals, childcare facilities, childcare during holidays and transport. Please consult our website for further details about Universitair Ziekenhuis Brussel: www.uzbrussel.be

Candidates may obtain further information about this role from Prof. M. De Ridder, Head of the Radiotherapy Department (02/477 61 44, mark.deridder@uzbrussel.be).