Scientific collaborator in medical physics research (FLASH)

Description

The Institute of Radiophysics (IRA) is active in the field of the medical application of ionizing radiation and the protection of workers and the public against the effects of ionizing radiation. The Institute also provides pre-graduate teaching in physics at the University of Lausanne's Faculty of Biology and Medicine, and offers training in medical physics and radiation protection.
The IRA is involved in a project to develop a FLASH radiotherapy platform (DEFT) with the European Laboratory for Particle Physics (CERN) and THERYQ (ALCEN Group). The project involves the development, planning, validation of regulatory compliance and construction of a first radiotherapy device using the FLASH technique with very high-energy electrons (VHEE - Very High Energy Electrons), to treat cancers resistant to conventional treatments.

Missions

Your responsibilities will include medical physics services in connection with the project to build a very high-energy electron device at the CHUV.
• Provide expertise to the industrial partner for the clinical integration of the system
• Define and validate the installation acceptance protocol with the industrial partner.
• Participate in system certification
• Participate in the preparation of clinical protocols
• Define protocols for acceptance and QA of installations and TPS.

Position requirements

- SSRPM diploma in medical physics or equivalent qualification.
- A PhD in physics is a plus
- Experience in medical physics in a radiation oncology department
- good organizational and interpersonal skills
- Ability to work with multidisciplinary teams
- Good communication and teamwork skills
- Excellent writing skills in French and English, ability to analyze and summarize.

Application deadline: 10th November 2024 at
https://recrutement.chuv.ch/vacancy/physicien-medical-collab-scientifique-physique-medicale-en-radiotherapie-301705.html

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