



Proton research: beamline is looking for support in experiments and developments

HollandPTC is looking for an R&D Physics Technician for
36 hours per week

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Our beamline researcher conducts beamline experiments on phantoms, cells or animal models. The experiments are conducted in the HollandPTC R&D bunker in collaboration with external researchers. You will be responsible for helping to set up experiments, you will provide technical support and you will help with the further development of the beamline. In addition, you will be involved in the radiation protection of the R&D bunker and the laboratories as well as managing the labs.

You will work closely with the beamline researcher. Moreover, you will have scope to build your role and to develop your talents. This may include scheduling beam time, contributing your thoughts on experimental setups and taking the lead in the execution of certain tasks. You will have an essential role in the further development of the beamline. You will learn to independently operate the beamline and to provide support to complex experiments as you develop into a back-up for the beamline researcher. We will train you to become the R&D radiation protection expert for the R&D bunker and laboratories. You will be involved in applying for the radiation permit required for all experiments. In addition, you will manage the physics lab, be responsible for placing orders and, together with the Research Office, arrange access for researchers.

Where will you be working?

HollandPTC is an independent outpatient clinic for proton therapy located in Delft. The Centre employs about 70 permanent staff who work in the fields of healthcare, physics, research and development, and operations management. Furthermore, HollandPTC has clinical physicians, physicists and researchers who also work for other institutes or organisations. Together we serve the needs of our patients and we conduct research.

The Centre has two proton gantries with in-room CT imaging and a treatment room for the irradiation of eye tumors. We also have cutting-edge imaging equipment, including a dual-energy CT, a 3T MRI and a PET/CT. In addition to the various laboratories, the Centre has a beamline for scientific research. In our laboratories we primarily carry out preparatory work for experiments with the proton beam.

The R&D department

There are currently six people working in the Research and Development department: a department head, a beamline researcher, a clinical R&D coordinator, a research programme R&D coordinator, a staff advisor and a management assistant. In addition, other researchers, external researchers and students are present in the department on a daily basis. We expect to expand to some 50 PhD students over the coming three years.

Job description

- You will assist the beamline researcher with experiments in the R&D bunker and with the ongoing development of the current beamline setup.
- You will perform experiments independently during periods of high demand for R&D beam time.
- You will be the designated point of contact for the physics lab and, in the absence of the beamline researcher, for the R&D bunker.
- You will schedule experiments in the R&D bunker and laboratories in consultation with the beamline researcher and the Research Office.
- You will coordinate and manage the physics lab and the R&D bunker. This includes purchasing, registering and maintaining equipment and managing the stock levels.



- In consultation with the Facility Manager, you will draw up general protocols and safety measures for working in the R&D bunker and monitor compliance.

Specifically for radiation protection you will (first in consultation with the beamline researcher and eventually independently):

- Instruct researchers about radiation protection measures in the bunker, the physics lab and the experimental animal laboratory and, you will enforce these measures.
- Monitor radiation protection in the R&D facilities.
- Manage the radiation permit applications for Delft Reactor Institute.

The beamline researcher will be your operational manager and you will report to the head of Research and Education, who is also the R&D department head.

Qualifications and skills

- An Applied Physics or equivalent degree from a research university or university of applied sciences.
- Strong affinity with research and working in a research environment, and preferably several years of experience in a relevant position or work environment.
- A valid radiation protection expert diploma (level 3).
- You are a team player but you also enjoy working independently.
- You are service-oriented, have good organisational skills and a hands-on mentality.
- You have strong communication skills and are proficient in Dutch and English (both verbally and in writing). The working language in the R&D department is English.

- You are flexible and you do not mind working in the evenings or at weekends.

Terms of Employment

The position is for 36 hours a week. The Collective Labour Agreement for Dutch University Medical Centers (CAO UMC) applies; depending on education and experience, the maximum monthly salary is €4,200 (scale 9), plus 8% holiday allowance, 8.3% end-of-year bonus and a commuter allowance of €0.19 per kilometer.

We require all new employees to provide us with a Certificate of Conduct (VOG). We will check your references as part of our selection procedure.

Application

For more information about this position, please contact Marta Rovituso, beamline researcher, at m.rovituso@hollandptc.nl, or Ellen Schenk, head of Research and Education, at e.schenk@hollandptc.nl or call 088 501 8800.

Please send your CV and cover letter to Ellen Schenk at HR@hollandptc.nl by 1 March 2021, referencing "R&D Physics Technician vacancy". Do not delay sending your application. If we receive applications from suitable candidates before the closing date, we will start the job selection procedure and may close the vacancy.

The vacancy is open to both internal and external candidates. In the case of an equivalent level of qualifications, preference will be given to an internal candidate.

Agencies do not need to contact us. We will try and find our new colleague ourselves.