



New position available at Department of Radiation Biology, Institute for Cancer Research, Oslo University Hospital

Head of Research Group

Job description

The Department of Radiation Biology seeks a group leader in biomedical radiation research with a main focus on ionizing radiation. We aim to strengthen our cancer research with addition expertise in radiation biology that can complement the portfolio of current radiation research in the department. We are seeking a highly motivated and enthusiastic researcher for a tenure Group Leader position. The candidate will be selected based on evaluation of how the applicant's research profile complements and strengthens the Department's profile. The group leader will be part of the Department's management team of 4 research groups.

Oslo University Hospital (OUH)

Oslo University Hospital is a highly specialized hospital in charge of extensive regional and local hospital assignments. As Scandinavia's largest hospital, we carry out more than 1.2 million patient treatments each year. The hospital has a nationwide responsibility for a number of national and multi-regional assignments, and has several national centers of competence. Oslo University Hospital is responsible for approximately 50 percent of all medical and health care research conducted at Norwegian hospitals, and is a significant role player within the education of a large variety of health care personnel. The hospital hosts one of the largest radiotherapy centers world-wide, with about 6000 new patients receiving state-of-the-art radiotherapy each year. The center is located at the Radium Hospital in close vicinity to the Institute for Cancer Research. A Proton Therapy center is under construction at the same location. The center will be opened in 2024-2025 and will include 2 treatment rooms for cancer patients and facilities for preclinical research.

Institute for Cancer Research

The Institute for Cancer Research (ICR) organized as a unit of the Cancer Clinic at OUH conducts cutting edge cancer research ranging from basic cancer biology to translational and clinical research. It is the leading cancer research institute in Norway and has a strong international standing. ICR is organized in 6 research departments including Department of Radiation Biology, currently with altogether 25 research groups, approx. 350 employees and

an annual output of approx. 230 peer reviewed publications. Particularly strong research areas are molecular genetics, cell biology, cancer progression and metastasis biology, biomarker discovery and development, radiation biology, tumour immunology/immunotherapy and systems biology. The groups conduct particularly strong translational research within breast cancer, colorectal cancer, lung cancer, lymphomas, sarcomas, melanoma, gynaecologic cancers and prostate cancer. ICR hosts a department for core facilities including NGS/genomics platforms, bioinformatics, flow- and mass cytometry, pre-clinical imaging (incl. animal MRI) and electron-, confocal- and high resolution microscopy. In collaboration with The University of Oslo, ICR is in the leadership of a Center of Excellence (CanCell), three K.G. Jebsen Centers for colorectal cancer, immunotherapy and B cell malignancies, respectively, the National Cancer Genomics Consortium, as well as other large nation-wide collaborative projects and EU funded projects. OUS is also accredited as a Comprehensive Cancer Center (CCC).

Department of Radiation Biology

The mission of Department of Radiation Biology is to improve the outcome of cancer treatment by radiation-based strategies. We are an interdisciplinary team of approximately 60 employees consisting of physicists, molecular biologists, biochemists, pharmacists, medical doctors and engineers, organized in 4 research groups and 7 project groups. The research at the department is focused on the biological responses to ionizing and non-ionizing radiation. Our vision is to develop a radiobiological understanding of the biological responses on the molecular, cellular and physiological level, and to utilize this knowledge to design new strategies for the treatment of cancer. Our research strategy involves basic, translational and clinical radiobiological research as well as pursuing innovations for improved radiotherapeutic outcome. The department leads the research network in radiation oncology (NIRO), which is a platform for interactions for all with an interest in radiotherapy research within the health region (<https://www.niro-research.no/>).

The current research groups focus mainly their research on 1) molecular biomarkers that can identify patients at risk for failure after radiotherapy and guide the clinical decision-making, 2) DNA damage checkpoints and repair in response to ionizing radiation in order to improve cancer therapy and 3) utilize light to activate photosensitizing medicines to translocate therapeutic macromolecules into the cytosol of target cells, a technology named photochemical internalization (PCI).

Qualifications:

- PhD degree in natural sciences or medicine
- At least 6 years of experience from biomedical radiation research
- Documented scientific qualifications at or near the professorial level

- Experience with and willingness to build own research group and document successful funding of own research
- The candidate is expected to raise funding for own research through external sources in addition to the internal infrastructure support and internal funding.
- She/he must have the ability to work independently, but leverage academic collaborations within the Institute as well as externally.
- Experience from supervision at the MSc and PhD level

Personal qualities

- Team player
- Flexible
- Self-motivated
- Communicative
- Leadership and organization skills

We offer

- The successful candidate will be offered a permanent position internally funded by OUH. The researcher position will according to Norwegian legislation be subjected to a 6 month probationary period. The position is included in the Norwegian Health Assurance and Retirement Pension Schemes, and the salary will be within the official range at OUH for group leader positions depending on qualifications.
- An enthusiastic work environment
- An environment with broad expertise and high professional level
- Access to high quality instrumentation and services from the Core Facility Department and other in-house instrumentation, such as a preclinical research facility , MRI, X-ray sources for *in vitro* and *in vivo* studies, hypoxia-chamber, IVIS, Seahorse (see also <https://www.ous-research.no/corefacilities/>).
- A preclinical proton research facility will be available from 2025.
- For additional information please contact Head of Department of Radiation Biology, Professor Kristian Berg (kristian.berg@rr-research.no; Tel +47 22 78 14 79), Professor Heidi Lyng(heidi.lyng@rr-research.no; Tel +47 22 78 14 78) or Dr. Randi Syljuåsen (Randi.Syljuasen@rr-research.no, Tel +47 22 78 14 68)

Application procedure

The application should include (as one combined pdf file)

- a covering letter summarizing the career and past research and innovation portfolio;
- CV with a full list of publications with the 10 most significant indicated;
- a research plan (max 5 pages) for the first 5 years;
- The CV should include a list of supervised PhD candidates (name of candidate, period of supervision, institution, date of defense of the thesis, main- and co supervisors for each candidate), ability to raise funding of own research, administrative experience, leadership, collaborations, communication and dissemination. The applicant is expected to present a plan on how his/her research will integrate and synergize with the ongoing research at the department and with the environment at the ICR and at OUH Comprehensive Cancer Centre at large as described: <https://www.ous-research.no/radiationbiology/>; <https://www.ous-research.no/institute/>; <https://www.ous-research.no/>.
- The application must be submitted through OUH Webcruiter: https://2411.webcruiter.no/Main2/Recruit/Public/4388425223?language=en&link_source_id=0&showExpired=False
- Application deadline: 15th of July, 2021.