The Norwegian University of Science and Technology (NTNU) in Trondheim represents academic eminence in technology and the natural sciences as well as in other academic disciplines ranging from the social sciences, the arts, medicine, teacher education, architecture to fine art. Cross-disciplinary cooperation results in innovative breakthroughs and creative solutions with far-reaching social and economic impact. Collaboration with St. Olav's University Hospital is part of NTNU's strategy, and Medical Technology is a strategic research area at NTNU.

Faculty of Natural Sciences and Technology
Department of Physics

Professor/Associate Professors in Physics (Two positions within Medical Physics, i.e., Medical Radiation Biophysics, NT-59/12; and Medical Imaging, NT-60/12)

The Department of Physics at the Faculty of Natural Sciences and Technology of the Norwegian University of Science and Technology (NTNU) invites applications for two positions at the rank of Professor/Associate Professor in Medical Physics.

The Department of Physics is responsible for the education within physics, from introductory to PhD level and is also responsible for the physics education for students at other Faculties at NTNU. For more detailed information about the programmes of study and courses, reference is made to the web page http://www.ntnu.edu/physics/studies.

At present the Department of Physics has 25 professors, 13 associate professors, 5 adjunct professors, and approximately 25 post docs and 70 PhD research fellows.

The research at the department is organized in 5 sections: Applied Physics and Physics Education, Biophysics and Medical Technology, Complex Materials, Condensed Matter Physics, and Theoretical Physics.

The Department of Physics has a broad range of competence within biophysics and medical technology, and has a central role in the education of medical physicists for the Norwegian health service and community sectors. The department aims to further strengthen its research and research-based teaching and training in medical physics by appointing two professors/associate professors in medical physics within the respective areas of medical radiation biophysics (NT-59/12) and medical imaging (NT-60/12).

The position in medical radiation biophysics (NT-59/12) will focus on the physics and biological effects of ionizing radiation and the use of ionizing radiation in cancer therapy and nuclear medicine.

The position in medical imaging (NT-60/12) will focus on the physics and applications of imaging by magnetic resonance. Additional scientific competence in positron emission tomography will be an advantage.

For both positions the research activity will be based on collaboration with research groups at the *Faculty of Medicine* and at respective clinics of St. Olav's University Hospital, i.e., *Clinic of Oncology* for the position in medical radiation biophysics (NT-59/12) and *Clinic of Radiology and Nuclear Medicine* for the position in medical imaging (NT-60/12) (see insert below). Collaboration agreements exist between the Faculty of Natural Sciences and Technology and the above-mentioned clinics of St.Olav's University Hospital.

The successful applicant will have a university physics background and documented research experience within the respective field of medical physics. Together with other colleagues at the department, the appointed persons will be responsible for the content and development of

courses at Bachelor, Master, and PhD level. In particular she/he will be responsible for research, teaching and guidance of students directed towards respective areas of medical physics. Professors/associate professors must agree to participate in administrative work.

Academic staff employed without having prior formal pedagogical qualification in university-level teaching, and who are unable to document equivalent qualifications, are required to successfully complete a recognized course that gives a pedagogical qualification in university-level teaching within two years of taking the appointment. The University offers such courses.

The best qualified applicants will be invited for interviews and a demonstration of their pedagogical ability, usually in the form of a trial lecture. They will also present their current research and future research plans.

The Professor/Associate Professor is obliged to adhere to regulations that concern changes and developments within the discipline and/or the organizational changes concerning activities at the University.

New members of the academic staff who do not already master a Scandinavian language are within three years expected to achieve proficiency in Norwegian or another Scandinavian language. This proficiency should correspond to level three in the Norwegian for Foreigners courses provided at the Department of Applied Linguistics.

The appointment is to be made in accordance with the regulations in force concerning State Employees and Civil Servants.

More information about the Department of Physics and the open position can be obtained from Head of Department Asle Sudbø. e-mail: asle.sudbo@ntnu.no. phone: +47 73 59 34 03.

The position as Professor/Associate Professor is remunerated according to the Norwegian State salary scale. NTNU expressively invites applications from qualified female scientists.

The application should contain:

- CV, including list of publications with bibliographical references
- Testimonials and certificates
- The most relevant publications - published or unpublished - that has relevance to the evaluation of the applicant's qualifications (max 10)
- A brief description of the scientific and technological relevance of the candidate's research
- Research proposal (max 10 pages)
- Teaching experience
- Other documents which the applicant would like to present

Joint work will be evaluated. If it is difficult to identify the contributions from individuals in a joint piece of work, applicants are to enclose a short descriptive summary of what he/she did in this connection.

The application should be sent electronically through Jobbnorge.no, where the two positions will be formally announced in late August 2012.
The reference numbers of the two positions are:
NT-59/12 for the position in Medical Radiation Biophysics;
NT-60/12 for the position in Medical imaging.
Application closing date: October 1 st, 2012.

Insert:
Medical physics at St.Olav's University Hospital:

Clinic of Oncology:
Relevant equipment includes 4 linear accelerators with associated treatment planning systems, Brachytherapy units. Monte Carlo simulation dosimetry. Staff includes 5 medical physicists. Contact person: Head of Section Anne Dybdahl Wanderås, e-mail anne.dybdahl.wanderas@stolav.no, phone: +47 72 82 54 73.

Clinic of Radiology and Nuclear Medicine:
Extensive imaging infrastructure, National Centre of Competence in Functional MRI, PET-MR and PET-CT installations in planning. Staff includes 5 medical physicists. Contact person: Head of Section Roar Sunde, e-mail roar.sunde@stolav.no, phone: +47 72 57 62 44.

Both clinics have considerable collaboration and shared infrastructure with the Faculty of Medicine, NTNU, e.g.

- Centre of excellence Medical Imaging Laboratory http://www.ntnu.edu/milab
- Norwegian Research School in Medical Imaging. http://www.ntnu.edu/medicalimaging

See also:
www.ntnu.edu/medtech/medical-imaging
www.ntnu.edu/medtech/about