

## **Professor/Associate Professor in Physics (Computational Physics)**

### **Faculty of Natural Sciences and Technology**

#### **Department of Physics**

*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.*

The Department of Physics at the Faculty of Natural Sciences and Technology of the Norwegian University of Science and Technology (NTNU) invites applications for a position at the rank of associate or full professor in Computational Physics, commensurate with experience and qualifications. At present the Department of Physics has 26 professors, 10 associate professors, 7 adjunct professors, approximately 25 post docs and about 55 PhD research fellows.

The Department of Physics is responsible for the education within physics, from ground level 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.no/fysikk/english/studies> .

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 will establish a wide competence within computational physics. Apart from research at a high international level within pure and applied physics based on development and use of algorithms, the Department's goal is that use of computational tools will be implemented on all levels of education. The Department of Physics also wants to further improve its high performance computing competence. This coincides with important strategic aims, both at NTNU and nationally.

The position will have special responsibility for research and guidance within computational physics, and cooperation on education with the existing groups in computational physics at the Department will be very important and necessary. The Department's research in computational physics is now focused on complex systems and materials, plasmonics and optics, and on quantum-condensed matters physics. The assessment will focus on competence in computational physics, and special attention will be on the applicant's references to and documented competence in development of algorithms and code. Additionally it will be important that the applicant has experience in working with areas within computational physics that complements the activities already present at the Department.

More information about the open position and the Department of Physics can be obtained from Head of Department Asle Sudbø (e-mail: [asle.sudbo@ntnu.no](mailto:asle.sudbo@ntnu.no), phone: +47 7359 3403).

The Professor/associate professor is required to contribute to teaching activities in the relevant curriculum and assist in further developing the teaching programme, including continuing education. The Professor/associate professor is to supervise master students, research fellows, and doctoral candidates in his/her discipline. The Professor/associate professor 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.

Applicants who have been short-listed will be invited for interviews and a demonstration of their pedagogical ability, usually in the form of a trial lecture. Short-listed applicants will also present a seminar outlining their current research and future research plans. The Professor/associate professor is to be jointly responsible for disciplinary matters together with other academic staff in the Department.

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.

Newly-employed academic staffs 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 University provides such courses.

The appointment is to be made in accordance with the regulations in force concerning State Employees and Civil Servants. NTNU expressively invites applications from qualified female scientists.

The position as Professor/Associate professor is remunerated according to the Norwegian State salary scale.

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)
- Educational 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 this page.

The positions reference number is NT-22/10.

**Closing date: 2010-08-31.**