NTNU
Norwegian University of
Science and Technology

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.

Faculty of Engineering Science and Technology
Department of Civil and Transport Engineering

Professorship/Associate Professorship in Civil and Transport Engineering (Geometric Design of Roads)

The Department of Civil and Transport Engineering in the Faculty of Engineering Science and Technology at the Norwegian University of Science and Technology (NTNU) announces the following vacant professorship/associate professorship in Civil and Transport Engineering (Geometric Design of Roads). The Department has at present 18 professors, 14 adjunct professors, 13 in other academic positions and about 70 doctoral candidates.

The department has responsibility for research and teaching in a variety of subject areas spread over the following 5 disciplines: Building and Construction Engineering, Geomatics, Geotechnical Engineering, Marine Civil Engineering and Arctic Technology, Road and Transport Engineering. For more information about the department, see http://www.ntnu.no/bat/

The position is organized within the research group Road and Transport Engineering. The activities of the group cover a wide research area, and the staff cooperates closely with other research groups at NTNU, with SINTEF as well as with public authorities and industry. The group has extensive laboratory facilities together with SINTEF**.**

The Professorship will have specific responsibility for teaching and research within the fundamental theory for geometric design of roads. The professorship should also hold knowledge in several of the following topics: geometric design of intersections, the effect geometric design has on the performance of roads and intersections in respect to factors like traffic safety and traffic flow, adjustment to existing roads and other infrastructure, the aesthetic location of the road, analyses of environmental impact of highway projects, cost/benefit analyses for road projects and the use and application of highway planning software.

In addition to teaching at the master and doctoral levels, the primary tasks of this professorship will be to initiate, execute, supervise and publish high-quality research within its specified fields. Cooperation with national and international transport agencies and research organizations will also be imperative.

The teaching responsibilities associated with the position will have a wider scope than the professor's specified fields and may vary depending on the priorities of the university.

NTNU co-operates with SINTEF in a "Gemini-centre", and new professors are expected to participate in joint research projects through the centre. Involvement in the use and development of the laboratory facilities (driving simulator, instrumented vehicle, field observation equipment, road materials laboratory) is important.

The successful applicant for a professorship must be able to document his/her extensive disciplinary qualifications in important fields within the discipline. His/her individual work must document scientific expertise in one or more parts of the discipline, particularly the specialist fields the Professorship has specific responsibility for. Weight will be placed on the ability to supervise and initiate research and development work.

Weight will be placed on pedagogical skills. The evaluation of the candidate will be based on documented

pedagogical material, including pedagogical education/training, the presentation of academic work, experience from supervising masters-level students and doctoral candidates, and teaching as well as other pedagogical matters. The evaluation will consider both the quality and the scope.

Academic staff who are employed without having a formal pedagogical qualification in university-level teaching and 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 applicants that have been short-listed will be invited for interviews and a demonstration of their pedagogical ability, usually in the form of a trial lecture.

The Professor is to be jointly responsible for disciplinary matters together with other academic staff in the Department. The Professor is required to participate in teaching activities in accordance with the relevant curriculum and assist in further developing the teaching programme, including continuing education. The Professor is to supervise masters students, research fellows and doctoral candidates in his/her discipline. The Professor must agree to participate in administrative work.

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

It is assumed that newly-employed staff in academic positions who do not already master a Scandinavian language are to obtain within three years knowledge of Norwegian or another Scandinavian language at an equivalent standard 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 would like to increase the percentage of female scientists in academic positions, and its policy is outlined in its equal opportunities plan. The following initiatives are relevant here: Start package for women in male-dominated fields. Qualification scholarships and mentor program for women in academic positions.

The position adheres to the Norwegian Government’s policy of balanced ethnicity, age and gender. Persons with immigrant background are encouraged to apply.

The position as professor is remunerated according to wage levels 67 to 98 on the Norwegian State salary scale, with gross salary from NOK 548 000 to NOK 1 125 200 per annum. There will be a 2 % deduction to The Norwegian Public Service Pension Fund from gross salary.

Further details about the professorship can be obtained from Professor Inge Hoff, +47 73 59 47 31/+47 934 26 463, email: inge.hoff@ntnu.no

Applicants are asked to give an account of their pedagogical qualifications according to prepared guidelines ("Documentation of an applicant’s pedagogical qualifications") which can be obtained from the following address on internet:
http://www.ntnu.no/administrasjon/avdelinger/personal/momentliste_ped_kval_e.html

Each applicant for the position must send 5 copies of the application with certified copies of certificates, testimonials and a list of academic work, and 5 sets of their:

- Academic work - published or unpublished - that has relevance to the evaluation of the applicant's qualifications by the evaluation committee (not more than 10 such submissions).
- A description of all the academic work that the applicant feels is most significant and that he/she feels the evaluation committee should pay particular attention to.
- A list of all publications with bibliographical references.

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.

Applications are to be sent to the Norwegian University of Science and Technology, Faculty of Engineering Science and Technology, 7491 Trondheim. The file number for the position (**IVT-4/12**) is to be clearly stated on the application. The application deadline is 24 February 2012.