

PhD Research Fellowship in Cryptology and Coding at the Department of Telematics, NTNU, Norway.

A PhD research grant is offered within the area of Information Security at the Department of Telematics in the Faculty of Information Technology, Mathematics and Electrical Engineering (IME), the Norwegian University of Science and Technology (NTNU). The Department of Telematics has 3 research areas: (1) Networked Services and Multimedia Systems, (2) Networks, and (3) Information Security.

The department has ca. 40 PhD students and is currently involved in a national centre of Excellence (Q2S, www.q2s.ntnu.no), National research programs, EU Network of Excellences (ePhoton/ONE, Euro-NGI) and EU research projects (CESAR).

The research focus of this PhD grant is on cryptology and coding applied to communication technology. Applicants with a strong background in one or several areas of cryptology and coding: public key cryptography; private key cryptography; stream ciphers; block ciphers; hash functions; cryptanalysis of cryptographic primitives; secure multiparty computations; block codes; errorcorrecting codes; space-time codes; are encouraged to apply.

A solid background from one or more of the areas of networking techniques, algebra, combinatorics, number theory, applications of coding and cryptography, information theory, computational complexity theory, skills for efficient implementation in C or assembler, skills for efficient implementation in VHDL, skills for design and analysis of algorithms will be a plus.

We seek a highly motivated individual holding a Master's degree in Telematics, Mathematics, Computer Science, Electrical Engineering or other relevant disciplines. The candidate must fulfil the formal requirements to be accepted as a PhD candidate at NTNU. See also the information about doctoral studies at NTNU at <http://www.item.ntnu.no/academics/phd>.

Interested candidates are encouraged to contact Prof. Danilo Gligoroski, email: danilog@item.ntnu.no for further information. For more detailed information about the department, see <http://www.item.ntnu.no/>, and about the research area Information Security see <http://www.item.ntnu.no/research/infosec>.

PhD Research grants at NTNU are normally for 4 years where the candidates are expected to use 25 % of their time on teaching or research assistance duties.

The PhD fellowship are placed in salary code 1017, salary level 45-61 in the national salary scheme, gross NOK 353.000 - 468.700 per annum, of which 2 % is deducted for the State Pension scheme. Starting salary expected to be at level 45. The salary might be adjusted after negotiations with the employer to reflect the applicant's experience.

The appointment will be made in accordance with current regulations dated 10.06.03 with supplementary rules of 8.09.04 with guidelines for research fellowship appointments in universities and polytechnics. Applicants must agree to participate in organized doctoral study programs within the period of the appointment. The successful applicant must agree to the conditions laid down for public employees. A contract will be drawn up regarding the period of appointment and work-related duties for award holders.

NTNU is an equal opportunity employer and welcomes applications from both EU/EEA and non-EU candidates. The university is strongly committed to diversity within its community and especially welcomes applications from members of ethnic minorities and women.

The application must include *curriculum vitae* with information about the candidate's prior training, exams, and work experience. Moreover, we request that the candidate contact a relevant research group at IME to define a thesis project. A brief outline of the project, signed by both the applicant and his/her prospective thesis supervisor (faculty member in that research group) should follow the application. It is requested that research publications and other written material submitted for the evaluation of academic credentials, should be provided in 3 copies.

Applications should be submitted to the Norwegian University of Science and Technology, Faculty of Information Technology, Mathematics and Electrical Engineering, N-7491 Trondheim, Norway, or by e-mail to application@ime.ntnu.no. Applications should be marked **IME-014**.

Closing date: 2009.03.04.