

Postdoctoral position at Department of Electronics and Telecommunications, Norwegian University of Science and Technology, Norway in nanotechnology research, with emphasis on “Nanostructuring of complex oxides” – IME-041-2009

[Department of Electronics and Telecommunications \(http://www.iet.ntnu.no\)](http://www.iet.ntnu.no), Faculty of Information Technology, Mathematics and Electrical Engineering, Norwegian University of Science and Technology (NTNU) announces a vacant postdoctoral position in nanotechnology research, with emphasis on nanometer scale structuring of complex oxides.

There is an ongoing effort to develop suitable nanostructuring techniques for perovskite oxides. In this project we will pursue a combination of STM nanostructuring and subsequent physical deposition in order to define nanomesas of complex oxides with a controlled geometry and sub-50 nm lateral size. The postdoc will be working in close collaboration with PhD students, studying nanoscale properties of ferroelectric, ferromagnetic and anti-ferromagnetic materials. The post-doc will pursue development of the proposed nanostructuring techniques, with subsequent growth of template materials, STM etching, and deposition of nanoscale mesas. The postdoc is also foreseen to take part in the daily management of the off-axis sputtering and pulsed laser deposition laboratories.

We seek highly motivated individuals holding a PhD degree in physics, materials science, electrical engineering, or other relevant discipline. Experience from physical deposition of perovskite oxides and scanning probe microscopy are desired.

For more information, please contact Prof. Thomas Tybell at +47 73590209 or by e-mail: thomas.tybell@iet.ntnu.no or Prof. Jostein Grepstad at +47 73592721 or by e-mail: Jostein.grepstad@iet.ntnu.no

The position is remunerated according to salary code 1352, entry salary level 57-76 on the Norwegian State pay scale. This amounts to an annual gross salary of NOK 435 500.- – 625 900.-, of which 2% is deducted for the Norwegian Public Service Pension Fund. Actual salary is subject to agreement with your employer.

The successful applicant must agree to the conditions laid down for public employees. The national labour force must reflect the composition of the population to the greatest possible extent. It is therefore a major political objective to achieve a balance of age and gender and to recruit persons with an immigrant background. Immigrants are encouraged to apply for this post. NTNU wants to increase the proportion of women in its scientific posts. Women are encouraged to apply.

The application must contain information about education, examinations and previous experience. Certified copies of certificates and documents must be attached.

Please, include copies of publications and other relevant works, which the applicant wishes to be taken into account. Joint works will be considered. If in joint works, it is difficult to assess the contribution of the applicant, a short summary should be attached which outline his/her contribution.

Applications with enclosures should be submitted to Norwegian University of Science and Technology, Faculty of Information Technology, Mathematics and Electrical Engineering, NO-7491 Trondheim, Norway or by e-mail to: application@ime.ntnu.no. (This address is for complete applications only. Enquiries to this address will not be answered.

Applications should be marked **Jnr. IME-041-2009**.

Closing date: 1st of July 2009.