We currently have an open post doc position in the Nanocatalysis group at the Interdisciplinary Nanoscience Center at Aarhus University, Denmark. The work will focus on atomic force microscopy (AFM) and scanning tunneling microscopy (STM) characterization of nanoclusters on surfaces as model systems for heterogeneous catalysts.

The successful candidate will be joining a research team seeking to understand some of the cluster-support synergies and size-effects which have been revealed in catalytic systems, e.g. for transition metals on some metal oxides. A particular challenge and advance of the project is the application of non-contact Atomic Force Microscopy (nc-AFM) to atomically characterize relevant metal oxide surfaces and model catalysts based on real metal oxides or sulfides used in heterogeneous catalysis. In parallel, the project will be devoted to actual screening methods of the activity and selectivity of the well-characterized catalyst samples both under well-controlled vacuum condition and real high- pressure working conditions (high-pressure reaction cell). Collaboration with an industrial partner manufacturing catalysts is also part of the project. See more: [http://inano.au.dk/organization/research-groups/nanocatalysis-lab-lauritsen](http://inano.au.dk/organization/research-groups/nanocatalysis-lab-lauritsen).

Please submit your CV and application if you have previous specific and documented experience in high-resolution scanning probe microscopy (UHV-based scanning tunneling microscopy and/or non-contact AFM/dynamic SFM) and a PhD degree in either experimental physics, materials science, chemistry or equivalent disciplines with a successful and documented scientific record. Experience in non-contact AFM and handling of ultra-high vacuum (UHV) equipment will be a distinct advantage.

The position is open from March 1st 2013.

For further information, please contact Associate Prof., Jeppe V. Lauritsen (jvang@inano.au.dk). Potential candidates are kindly asked to send their CV, full publication list, and a short description of qualifications to jvang@inano.au.dk.

**About Aarhus and the iNANO center:** The Interdisciplinary Nanoscience Research Center (iNANO, [www.inano.au.dk](http://www.inano.au.dk)) is physically located at the Department of Physics and Astronomy, Aarhus University (www.au.dk) in Denmark. Aarhus University is ranked among the top 60 international universities. The iNANO Center (www.inano.dk) is a major research and education center hosting an international staff consisting 70 skilled senior scientists, ~100 post docs and >130 PhD students. The centre combines expertise and faculty from physics, chemistry, molecular biology and medicine to carry out world-class interdisciplinary research in a highly international environment.