



## **Professor of Multiscale Materials Modelling**

The Department of Materials at ETH Zurich ([www.mat.ethz.ch](http://www.mat.ethz.ch)) and the Paul Scherrer Institute ([www.psi.ch](http://www.psi.ch)) invite applications for a joint professorship in Multiscale Materials Modelling. The professorship involves research and teaching at the Department of Materials at ETH Zurich (40%) and the operational and scientific management of the Laboratory for Scientific Computing and Modelling at PSI (60%). The group will be located at both institutes. The new Laboratory for Scientific Computing and Modelling will consist of 20-30 scientists, involving Nuclear Energy and Safety, Neutron and Muon Research, and the Photon Science divisions. The new laboratory head will coordinate the theoretical support of experimentalists working at the large-scale PSI facilities.

The new professor must have demonstrated research excellence in the development of methods for theory- and computer-based multiscale materials modelling and their application in solving relevant materials problems. Experience with both static simulations, such as Monte Carlo, and dynamic simulations, such as atomistic, molecular or fluid dynamics, wave or particle transport, is desirable, combined with coarse-graining techniques for multiscale modelling and with theoretical analysis to complement the simulations. The candidate's research should bridge time and length scales, the latter from the atomistic to the macroscopic. Multiscale modelling in any branch of materials science or engineering will be considered. Beside scientific leadership, the candidate will have proven management and administrative skills. Generally, at ETH Zurich undergraduate level courses are taught in German or English and graduate level courses are taught in English.

**Please apply online at: [www.facultyaffairs.ethz.ch](http://www.facultyaffairs.ethz.ch)**

Applications should include a curriculum vitae, a list of publications, a statement of future research and teaching interests, and a description of the three most important achievements. The letter of application should be addressed **to the President of ETH Zurich, Prof. Dr. Lino Guzzella. The closing date for applications is 30 April 2017.** ETH Zurich is an equal opportunity and family friendly employer and is responsive to the needs of dual career couples. We specifically encourage women to apply.