



The Max-Planck-Institut für Eisenforschung (MPIE) in Düsseldorf, Germany, pursues a strong interdisciplinary approach by combining material sciences, metallurgy, physics, and chemistry to develop new high-performance materials for use as high-tech structural and functional components. The Department Structure and Nano-/Micromechanics of Materials, headed by Prof. Gerhard Dehm, seeks excellent and highly motivated

### PhD students and Postdocs

in the field of **advanced transmission electron microscopy** for the following research projects: (i) Atomic resolved STEM/TEM of phase transformations at interfaces in metals. (ii) *In situ* nanomechanical testing of interfaces using TEM/STEM. (iii) *In situ* electro-chemical reactions using a liquid cell holder for TEM/STEM studies.

Candidates for a **postdoc position** should have a PhD in physics, chemistry or materials science and expertise in at least one of the following TEM fields:  $C_s$ -corrected HRTEM,  $C_s$  corrected STEM, *in situ* TEM, Defect analysis, Electron energy-loss spectroscopy.

Candidates for a **PhD position** should have first experience in electron microscopy and a University Master Degree in Materials Science or Physics.

MPIE provides an excellent research infrastructure including 2 novel  $C_s$  corrected Titan Themis and a JEOL 2200 FEG S/TEM, several SEM and FIB. The institute offers a stimulating research environment with a multinational team of scientists and close collaborations with the Universities of Aachen and Bochum.

Applicants should send their resume, their publication list, and recommendation letters to [dehm@mpie.de](mailto:dehm@mpie.de).

