Postdoctoral / visiting scientist position in atomic resolution scanning transmission electron microscopy (AR-STEM) of materials for energy conversion and storage

Announcement date: 1 February 2014, application deadline: 31 March 2014
Applicants should be available to start no later than June 1st 2014

Job description
Research project include the characterization of advanced materials for energy conversion and storage (fuel cells, batteries, etc.) by aberration corrected STEM and EELS. The work will be integrated in many national and international research projects and European integrations.

Qualifications
Applicants should have a strong background in materials science. Preference will be given to applicants with demonstrated experience in TEM, HRTEM and STEM, particularly with expertise in aberration corrected STEM techniques, such as atom-to-atom chemical mapping with electron energy loss spectroscopy and atomic resolution ADF - HAADF imaging. Experience with EELS and EDXS techniques is highly desirable.
We are seeking for a self-motivated candidate who has successfully completed Ph.D. study in physics, chemistry or materials sciences. Applicants should have excellent written and oral communication skills in English, the ability to assist with the training of junior researchers and a strong publication record.
The successful candidate will join a multi-disciplinary research team of materials scientists and actively participate in the on-going research activities in the laboratory. The candidate will be encouraged to develop its own independent and collaborative research. The post represents an excellent opportunity for an individual to develop his/her career and interact with leading scientists.

Facilities at National Institute of Chemistry (NIC) include new state-of-the-art aberration corrected cold-FEG STEM (JEOL ARM 200 CF) equipped with DualEELS (Gatan QuantumGIF) and EDXS (Jeol Centurio). Beside AR-STEM a FEG-SEM (Zeiss Supra 35 VP) and several top-end AFM and STM microscopes are available. Conventional TEMs and FIB are also accessible at nearby institutes.

The position is available in June 2014 for two years with the possibility of prolongation. Candidates must have a Ph.D. in Materials Science, Chemistry or Physics.

A cover letter, CV, list of publications and contact information of three references should be sent by an email to:

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