UNIVERSITETET I OSLO

Jobbnorge ID: 235150
Deadline: 11/27/2022
Website: http://www.uio.no/
Scope: Fulltime
Duration: Engagement

Researcher in Chemistry of Battery Materials

Job description

A 3 year position of a Researcher within the field of materials chemistry for Li-ion batteries is available at the Centre for Materials Science and Nanotechnology (SMN)/ the Department of Chemistry.

We search for a skilled, creative and ambitious researcher to join our scientific activities within battery materials. In addition to the experience with battery materials, the candidate should be willing to learn and apply new methods and chemistries.

The candidate will work in a dynamic team of approximately 10 PhD/MS students and researchers and, therefore, should be skilled to work independently as well in a team.

The successful candidate will be primary responsible for the development and advanced characterization of Si-based materials for the anodes of Li-ion batteries under the projects funded by the Research Council of Norway. Specifically, the candidate will focus on electrochemical evaluation including impedance spectroscopy and advanced characterization by the X-ray-based techniques: diffraction, scattering and pair distribution function. An experience in operando characterization of battery materials would be considered as highly beneficial. Experiments using synchrotron facilities are foreseen, depending on access and travel regulations.

The candidate will work closely with relevant industrial, academic and research partners within projects as well as with the research center MoZEES.

Qualification requirements

- Applicants must hold a degree equivalent to a Norwegian doctoral degree in Chemistry or a related field, and with documented experience within the fields of battery science and/or electrochemistry and X-ray-based characterization. Doctoral dissertation must be submitted for evaluation by the closing date. Appointment is dependent on the public defence of the doctoral thesis being approved
- The candidate must have fluent oral and written communication skills in English

In the evaluation of the candidates a significatn importance will be given to the experience within the following areas:

- Chemistry of battery materials
- Electrochemical characterization of battery materials.
- Impedance spectroscopy
- Operando methods for characterization of battery materials.
- Crystal structure and total scattering/PDF analysis, IR/RAMAN spectroscopy
- Electron Microscopy
- Expertise with using large scale facilities (ESRF, Diamond, etc) and expertise in tomography will be considered as highly beneficial

An expert committee will evaluate the applications. The committee will put emphasis on scientific qualification with focus on documented skills required for the position. Information to be considered in the evaluation process must be submitted within the deadline.

We offer

- Salary NOK 544 400 - 626 300 per annum depending on qualifications in position as Researcher (position code 1109)
- Professionally stimulating working environment
- Attractive welfare benefits and a generous pension agreement, in addition to Oslo's family-friendly environment with its rich opportunities for culture and outdoor activities

How to apply

The application must include

- Cover letter (statement of motivation, summarizing scientific work and research interest). In the cover letter the applicant must describe his/her experience within the following areas: chemistry of battery materials, electrochemical characterization of battery materials, impedance spectroscopy, operando methods for characterization of battery materials, crystal structure and total scattering/PDF analysis, IR/RAMAN spectroscopy, electron microscopy and tomography
- CV (summarizing education, positions, pedagogical experience, administrative experience and other qualifying activity)
- Copies of educational certificates (academic transcripts only)
- List of reference persons: 2-3 references (name, relation to candidate, e-mail and phone number)

The application with attachments must be delivered in our electronic recruiting system. Foreign applicants are advised to attach an explanation of their University's grading system. Please note that all documents should be in English (or a Scandinavian language).

In assessing the applications, special emphasis will be placed on the documented, academic qualifications, the project description (whenever this is required in the call for applicants), and the quality of the project as well as the candidates motivation and personal suitability. Interviews with the best qualified candidates will be arranged.

It is expected that the successful candidate will be able to complete the project in the course of the period of employment.

Formal regulations

cording to the Norwegian Freedom of Information Act (Offentleglova) information about the applicant may be included in the public applicant list, also in cases where the applicant has requested non-disclosure.

The University of Oslo has an agreement for all employees, aiming to secure rights to research results a.o.

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The University of Oslo aims to achieve a balanced gender composition in the workforce and to recruit people with ethnic minority backgrounds.

Contact information

For more information please, contact:

Associate professor Alexey Y. Koposov, tlf.: +47-96694531, email: alexey.koposov@kjemi.uio.no

For technical questions regarding the recruitment system JobbNorge please, contact:

HR Advisor Olga Holmund, email: olga.holmlund@mn.uio.no

Title: Ola Normann, phone number: XXXX, e-mail:

About the University of Oslo

The University of Oslo is Norway’s oldest and highest rated institution of research and education with 28 000 students and 7000 employees. Its broad range of academic disciplines and internationally esteemed research communities make UiO an important contributor to society.

Centre for Materials Science and Nanotechnology (SMN) is an interdisciplinary focus field for material and energy research at the University of Oslo. SMN has focused on basic research in renewable energy and environmentally friendly use of fossil energy sources. The center consists of research groups from the Department of Physics (Fi) and Chemistry (Ki), has about 100 employees from around the world and manages more than 80 projects funded by the EU, the RCN and others.

Additional information

Place of service:

Problemveien 7 0313 Oslo (Oslo Municipality)