

## Postdoctoral researcher in the field of Li-ion battery research

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A leading research institute in Prague, Czechia, named after Nobel laureate in Chemistry, J. Heyrovsky, is looking for a postdoctoral researcher in the field of Li-ion battery research.

**Type of contract:** Temporary (4 years)

**Job status:** Full-time

**Starting date:** 10/2024

**Applications deadline:** Applications are accepted until the position is filled

**Link to the department's website:** <https://www.jh-inst.cas.cz/department/department-of-electrochemical-materials#department>

### Job description

Within our current research at the Department of Electrochemical Materials, we are developing new high-capacity Nano silicon anodes for Li-ion batteries with both liquid and solid electrolytes, aimed at applications in the automotive industry and stationary electrical energy storage. We seek a highly motivated and skilled postdoctoral researcher to join our team. The successful candidate will prepare and test various anode materials based on silicon and carbon conductive matrices, conduct structural analyses (SEM, Raman, and AFM), test different types of electrolytes, and perform electrochemical testing of Li-ion batteries (including cyclic voltammetry, impedance spectroscopy, and galvanostatic cycling). The role also involves engaging in atomic layer deposition (ALD). Additionally, the candidate will be responsible for preparing research outputs and contributing to publication activities.

The successful candidate will have the opportunity to collaborate with our international team on a project funded by the Technology Agency of the Czech Republic, in partnership with the FZU - Institute of Physics of the Czech Academy of Sciences and an industrial partner in the automotive sector.

### Required Qualifications

- Ph.D. in Chemistry, Materials Science, Physics, or a related field
- fundamental knowledge of electrochemistry
- strong background in battery research, specifically Li-ion batteries with Si anode
- experience with testing of batteries
- strong English communication skills, both spoken and written
- publication track record commensurate with the career stage with at least 3 publications in respected peer-reviewed journals

**For more details see:** <https://jh-inst.cas.cz/recruitment/postdoctoral-researcher-field-of-li-ion-battery-research>

To apply, please send your CV, full list of publications, ORCID, a motivation letter, and contacts for two references to [recruitment@jh-inst.cas.cz](mailto:recruitment@jh-inst.cas.cz) and [zuzana.vlckova@jh-inst.cas.cz](mailto:zuzana.vlckova@jh-inst.cas.cz), including the following text in the subject line of your email: SC2024\_27 Li-ion battery research. Note that applications with a generic motivation letter, not tailored to this position, will not be considered.

**Application deadline - 31. 12. 2024**