



EUROPEAN COMMISSION

JOINT RESEARCH CENTRE

2022-PTT-C1-FGIV-020808

**FG IV - Programme Officer - Scientific Research
Battery Performance and Durability**

POSITION FOR:

Member of the contract staff FG IV – art. 3b of the Conditions of Employment of Other Servants
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CONSLEG:1962R0031:20110101:EN:PDF>)

The current vacancy is in the Directorate for Energy, Transport and Climate, in the Energy Storage Unit of the European Commission's Joint Research Centre (JRC) in Petten (the Netherlands).

The Directorate for Energy, Transport and Climate provides support to Community policies in the field of sustainable, safe, secure and efficient energy production, distribution and use. Fostering sustainable and efficient mobility in Europe and providing scientific and technical analyses in support to integrated air quality, climate and related policies are also in the area of activities.

The Energy Storage Unit of this Directorate performs scientific research in the fields of battery and hydrogen technologies in support of related European Commission policies. These technologies are enablers of the transition towards less carbon-intensive and hydrogen-inclusive EU energy and transport systems, but it is important to assess their performance, sustainability and safety, to maximise their positive effects.

The Unit achieves its objectives by combining pre-normative experimental research and desktop analytical activities. It is directly involved in selected Commission energy, industrial, mobility and research and innovation policies.

Further information: <https://ec.europa.eu/jrc/en/research-facility/battery-energy-storage-testing-safe-electric-transport> and <https://ec.europa.eu/jrc/>.

WE PROPOSE:

The Energy Storage Unit is looking for a highly motivated and experienced colleague for the investigation of batteries and battery materials. The successful candidate will contribute to the Unit's work at the interface between science and policymaking.

Scientifically, the new colleague will assess the performance of cells and batteries e.g. by testing them following different cycling protocols. Depending on the specific topics, this work will be supported by analytical techniques such as electrochemical impedance spectroscopy (EIS), Scanning Electron Microscopy (SEM) or X-ray diffraction (XRD).

These scientific activities will be the basis for the policy aspects of the work. These include the development of battery standards and providing scientific input to European legislation related to batteries.

Specific duties include:

- To plan and execute experimental campaigns for the determination of battery performance and its degradation and/or the determination of the state of health (SoH) in view of second use applications.
- To publish research in scientific journal and international conferences.
- To support European Commission policies in field of batteries performance and durability, in collaboration with the Directorate-General for Environment (DG ENV) and the Directorate-General for Internal Market and Industry (DG GROW).

The JRC offers a full time work position in the field of the dynamically developing state of the art battery technologies and related policy. JRC also offers a set of social benefits for its employees and their families, including health insurance, European School education for children and a work place in the

middle of a Nature 2000 dune area.

INDICATIVE CONTRACT'S DURATION:

36 months initial contract with possible renewals up to maximum 6 years.

WE LOOK FOR:

We are looking for a candidate with the following experience/skills:

Required Skills/Experience

- University studies of at least three years in physics, chemistry, engineering or a similar field.
- Five years of professional experience is essential or, alternatively, a PhD in a relevant field.
- Hands-on experience with experimental research related to batteries or battery materials, preferably Li ion batteries.
- Openness to work in a multicultural environment.
- Oral and written English at least at level B2.
- Ability to work in a team.
- Very good communication skills.

Desirable Skills/Experience

- Experience in chemical/physical analysis techniques such as SEM, XRD etc.
- Knowledge of battery standards.
- Programming experience (preferably Matlab and/or Python).
- Statistical data evaluation.

PLACE OF WORK:

Petten (NL)

ELIGIBILITY CRITERIA:

Candidates for this contract agent post shall:

– (i) have passed a valid EPSO CAST selection procedure;

or

– (ii) be registered in the EPSO Permanent CAST https://epso.europa.eu/documents/2240_en

or

- (iii) be registered in the specialised call for researchers <https://ec.europa.eu/jrc/en/working-with-us/jobs/vacancies/function-group-iv-researchers>.

With a valid application number to one of the above, you may then apply for this specific vacancy at JRC through: <http://recruitment.jrc.ec.europa.eu/?type=AX>.

RECRUITMENT POLICY:

The Joint Research Centre

- Cultivates a workplace based on respect for other people and the environment.
- Embraces non-discriminatory practices and equality of opportunity. In case of equal merit, preference will be given to the gender in minority.