



2019-PTT-C1-FGIV-011851

**FG IV - Scientific support officer  
X-ray computed tomography applied to  
batteries studies**

**Position for:**

**FG IV –  
(Scientific support officer  
X-ray computed tomography)**

As the science and knowledge service of the Commission, the mission of DG Joint Research Centre is to support EU policies with independent evidence throughout the whole policy cycle.

The JRC is located in 5 Member States (Belgium, Germany, Italy, the Netherlands and Spain). Further information is available at: <https://ec.europa.eu/jrc/>

The Directorate for Energy, Transport and Climate provides support to Community policies ensuring sustainable, safe, secure and efficient energy production, distribution and use and fostering sustainable and efficient mobility in Europe and provides scientific and technical analyses in support to integrated air quality, climate and related policies. The Energy Storage Unit performs scientific research into energy storage technologies in support of European energy and transport policies.

The Energy Storage Unit is looking for a highly motivated and experienced colleague for the investigation of batteries and other samples by X-ray computed tomography. This work will contribute to BESTEST (battery energy storage testing for safe electrification of transport) activities related to battery performance and safety testing. The successful candidate will work with a team of engineers and scientists from the Energy Storage Unit and scientific staff from all experimental activities at JRC Petten requiring support in X-ray computed tomography.

Specific duties include:

- To operate state-of-the-art X-ray computed tomography equipment and to support its calibration and maintenance.
- To define and execute experiments related to battery performance including characterisation of degradation mechanisms of different Li-ion chemistries using X-ray computed tomography methods
- To assist - where necessary - in the identification and sourcing of suitable equipment (technical specifications) and techniques and their commissioning
- Monitoring the implementation of quality, environmental, health and safety system and following legal requirements for laboratory activities. Follow-up and monitoring the execution of equipment supply and service contracts.
- To collect and analyse test data, to publish results in the peer-reviewed literature
- To attend key scientific conferences, communicate with external project collaborators and present our activities and experimental results and findings.

	<p>Qualifications:</p> <p>Candidates should have a completed university studies of at least three years attested by a diploma, and possess a PhD in physics, chemistry or a relevant engineering discipline.</p> <p>Experience:</p> <p>A minimum of 3 years experience in X-ray computed tomography is required. Demonstrated experience in laboratory based experimental research in X-ray computed tomography and related data processing and evaluation is essential. Experience in the X-ray safety is highly desirable. Competences in electrochemistry, electric vehicle/battery testing and/or batteries materials will be an asset.</p> <p>JRC-Petten holds ISO 14001 and ISO 9001 certificates, therefore experience in a work environment with an implemented quality system is an asset. Ability to convey research findings in a clear concise fashion and excellent drafting skills in English are essential.</p>
<p><b>Directorate Unit</b></p>	<p>Directorate for Energy, Transport and Climate Energy Storage Unit</p> <p>Further information: <a href="https://ec.europa.eu/jrc/en/research-facility/battery-energy-storage-testing-safe-electric-transport">https://ec.europa.eu/jrc/en/research-facility/battery-energy-storage-testing-safe-electric-transport</a></p>
<p><b>Indicative duration</b></p>	<p>36 months initial contract with possible renewals up to maximum 6 years</p>
<p><b>JRC Site</b> <b>Country</b></p>	<p>Petten The Netherlands</p>
<p><b>Rules and eligibility</b></p>	<p>The candidate must be on any valid EPSO reserve list for Function Group IV contract staff.</p> <p>Applicants to the following Calls for expression of interest can also be considered:</p> <ol style="list-style-type: none"> <li>1. CAST Permanent - EPSO has launched in January 2017 an open-ended selection procedure to create a pool of candidates from which the institutions, bodies, offices and agencies of the European Union (EU) can recruit contract agents. Details available at the link below: <a href="https://epso.europa.eu/documents/2240_en">https://epso.europa.eu/documents/2240_en</a></li> <li>2. Call COM/1/2015/GFIV – Research - The JRC has launched in January 2015 a permanent call for researchers FG IV. Details available at the link below: <a href="https://ec.europa.eu/jrc/en/working-with-us/jobs/vacancies/function-group-IV-researchers">https://ec.europa.eu/jrc/en/working-with-us/jobs/vacancies/function-group-IV-researchers</a></li> </ol> <p><b>Auxiliary contract staff:</b> <a href="https://ec.europa.eu/jrc/en/working-with-">https://ec.europa.eu/jrc/en/working-with-</a></p>

[us/jobs/temporary-positions/contract-staff-members](#)

Article 3b of the Conditions of Employment of Other Servants of the European Union applies: the actual period of employment within the Commission under this type of contract, including any period under renewal, shall not exceed 6 years.

*Please note that due to the high number of applications received only shortlisted candidates will be contacted.*