



EUROPEAN COMMISSION

JOINT RESEARCH CENTRE

2021-IPR-A5001-FGIV-018631

**FG IV Scientist - Exploratory Research Project
Evaluation, Assessment and Improvement of Process
for Recycling and Reusing Innovative Photovoltaic
Solar Cells (Recycle-PSC)**

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>)

WE ARE:

As the science and knowledge service of the Commission, the mission of DG Joint Research Centre (JRC) 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 JRC offers a position for a Contract Agent within the Exploratory Research Project “Evaluation, Assessment and Improvement of Process for Recycling and Reusing Innovative Photovoltaic Solar Cells” (Recycle-PSC). The JRC Exploratory Research Programme (ER) is a strategic initiative characterised by ideas that might lead to novel results and qualitatively enrich current JRC scientific work.

The vacancy is within the Directorate for Energy Transport and Climate. The directorate supports the relevant policy DGs with independent, technical and scientific evidence in the areas of Renewable Energy. The operational scientific research will take place in the unit Energy Efficiency and Renewables. The unit’s mission is to support the deployment of renewable energy technologies and energy efficiency measures. The unit serves the EU renewable energy and energy efficiency policies and supports research communities, standard organisations as well as public and private stakeholders. It provides reference measurements and test methods on photovoltaic solar electricity, robust data on renewable resources and progress of their usage for energy production, as well as policy and market analysis of actions aiming to increase the efficiency of energy use.

Further information is available at: [European Solar Test Installation](#).

The Scientific Development Unit is in charge of the overall JRC Exploratory Research Programme.

WE PROPOSE:

A position to carry out scientific and technical tasks in accordance with the Exploratory Research Project “Evaluation, Assessment and Improvement of Process for Recycling and Reusing Innovative Photovoltaic Solar Cells” (Recycle-PSC) with special emphasis on the electrical and optical characterisation of the photovoltaic devices. To evaluate and assess the properties and characteristics of innovative solar cells in particular perovskite based technologies.

The operational scientific work will be executed in the European Solar Test Installation ESTI, a world-renowned and ISO 17025 accredited calibration laboratory. The role will include investigation of the behaviour and properties of these devices and aims to identify appropriate candidate technologies for subsequent activities of recycling and reuse of the component materials.

The successful candidate will:

- Participate in and develop further the collaboration with partner groups particularly for the synthesis of the devices under study;
- Identify appropriate characterisation methods and where necessary adapt or develop them for the specific technologies;
- Characterise electrical and optically the devices under study;
- Analyse, interpret and validate data from the resulting characterisation to form a comprehensive understanding of the device behaviour;
- Report to the Project Leader on progress, achievements and potential problems in a timely manner;

- Provide feedback and maintain interactive communication with colleagues;
- Explain the research activities and achievements to third parties, such as scientific communities and the general public;
- Write, publish and present scientific reports, articles and conference papers;
- Provide regular and accurate reports on scientific activities every twelve months and a final report.

WE LOOK FOR:

A scientist with the following qualifications:

- A doctoral diploma in Physics, Electronics, Chemistry, Material Science or related field, alternatively completed university studies of at least three years attested by a diploma and at least five years professional experience in a field relevant to the position;
- Extensive knowledge/experience in electronic or optical characterisation of photoconductive or photovoltaic materials is essential;
- Knowledge of perovskite or polymer or organic photovoltaics is an advantage;
- Solid record of research activities relevant for the post including publications in international peer-reviewed journals is an advantage;
- Good oral and written communication skills in English (B2) are essential, knowledge of other languages is an advantage.

In addition, the following competences will be considered as an advantage:

- Ability to work in a team and in a multi-cultural environment;
- The candidate is expected to be creative and work independently.

EMPLOYMENT CONTRACT DURATION:

24 months employment contract for the Exploratory Research Project “Evaluation, Assessment and Improvement of Process for Recycling and Reusing Innovative Photovoltaic Solar Cells” (Recycle-PSC).

Employment contracts for Contract Agents can be renewed for maximum 6 years.

PLACE OF WORK:

Ispra (IT)

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> (used mainly by the JRC).

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 JRC

- 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.