VACANCY NOTICE – 2023-PTT-C1-FGIV-023036

Project Officer –Technology Monitoring and Assessment of Hydrogen Environmental impacts

Type of contract	Member of the European Commission's contract staff, Function Group IV (article 3b of the Conditions of Employment of Other Servants)
Duration of contract	36 months (renewable up to maximum 6 years)
Area	Hydrogen Technologies
Place of employment	Petten (NL)
Indicative basic salary	3877,47 - 5616,29 € (applicable as of 1st of July 2022) For more detailed information please consult: Working Conditions

WE ARE

The Joint Research Centre (JRC) provides independent, evidence-based knowledge and science, supporting EU policies to positively impact society.

The current vacancy is with Directorate for Energy, Mobility and Climate, in the Battery and Hydrogen Technologies Unit of the JRC (Unit JRC.C.1) in Petten in the Netherlands. The Directorate provides support to Community policies in the field of sustainable, safe, secure and efficient energy production, distribution and use, making an important contribution to the European Green Deal. The Unit provides scientific and technical support to EU policies by means of laboratory-based and knowledge management activities, strongly entwined with other Units of the Directorate. – Further information: https://joint-research-centre.ec.europa.eu/jrc-mission-statement-work-programme_en#jrc-strategy.

The staff of the Unit (about 30) is based in Petten (NL) at the energy and health campus. A convenient bus service connects our offices to the cities of Alkmaar and Amsterdam. Children of employees can attend the European School in Bergen.

The jobholder will primarily collect data and develop a methodology applied to the assessment of environmental impacts of hydrogen technologies within both a European and non-European trade context. The main scope of the job is to provide scientific data and evidences in support to European policy initiatives and actions governing future trading of renewable hydrogen at the international level.

We offer the possibility to work in an international and dynamic environment with a competitive salary and benefits. You will be working at the interface between science and policy, providing technical expertise and contributing to the design and development of EC energy and industrial policies. Opportunities to interface with internal and external experts and grow in the role are encouraged.
The position offers options for continuous professional development, training and participation in international conferences and policy-relevant forums.

WE PROPOSE

The selected candidate will support the unit activities regarding the assessment of environmental impacts of hydrogen technologies and associated value chains, for example through life cycle assessment (LCA). The job will require to collect and structure intelligence on impacts of technological options for hydrogen production, transport, distribution and storage and for the use of hydrogen in various end-use sectors. Aiming at identifying and quantifying potential impacts on current and future systems will be the main task of the jobholder.

Attention to the international dimension will be required and the capacity to retrieve non-obvious information and detect trends is part of the job. This dimension will imply, for example, a study aimed at assessing the greenhouse gas emissions associated with hydrogen trade as covered by the European Carbon Border Adjustment Mechanism.

Support on methodological issues and identification of unwanted future consequences in the application of practices to quantify hydrogen footprints will have to be tackled as well.

An additional aspect this work should consider is the interface of hydrogen applications with other systems, such as gas and electricity grids. The job holder would be in close contact with colleagues covering these aspects, and be expected to contribute relevant information on technical and environmental indicators.

The candidate is expected to be able to:

- retrieve and derive relevant carbon-footprint and environmental indicators able to characterise impacts of hydrogen technologies. This involves also the capability of negotiating and developing suitable collection and sorting methodologies, and the establishment of an effective direct working relationship with all the parties involved;
- work with large and diverse sets of data and derive relevant statistical information;
- report the outcome of investigation activities in technical reports and peer-reviewed scientific publications;
- assist with scientific and technical expertise in institutional activities supporting policy in energy and environmental matters (e.g.: contribute to policy briefs and ad hoc requests from other European Commission services, the EU Parliament and the Council);
- be actively involved in international scientific networks such as International Energy Agency technical tasks,

Ideally, the candidate will also be able to define the current European and international state-of-the art for several key hydrogen technologies such as production technologies and hydrogen-using processes.

WE LOOK FOR

The candidate would have a completed university degree in Technology, Engineering, Economics or Science of at least three years duration attested by a diploma, and at least two years of professional experience or, alternatively, a PhD degree preferably with research experience in a relevant field.

An in-depth knowledge of lifecycle assessment techniques and methodologies, and/or other environmental impact indicators will be considered a key asset. Knowledge of hydrogen systems and technologies, with a preference for competences in the field of hydrogen

production, is also a valuable asset for the candidate. Familiarity with key aspects of the supply of critical raw materials would be considered a valuable secondary asset.

Knowledge of European and International goals and policies with respect to hydrogen and energy storage would be useful for this position, as would knowledge of related standardisation efforts and issues.

Familiarity with a programming tool such as R, Matlab or Python based scripts and applied statistical techniques is an additional trait an ideal candidate would possess.

Ability to convey research findings in a clear, concise and timely fashion and excellent drafting skills in English (C1) are essential. Knowledge of other European languages is an advantage.

The job requires the capacity to work in a team, and the ability to perform several tasks in parallel constitutes a valuable asset. The successful candidate should also be able to organise and prioritise tasks under a variable workload.

The ability to supervise and coordinate contributions by different actors within a collective exercise is considered of high added value.

Willingness to be a collaborative member of a multicultural and dynamic team is a must.

HOW TO APPLY

If you are **already on a valid CAST FG IV reserve list**, or you **have already applied to one of the calls below**, you can directly submit your application at http://recruitment.jrc.ec.europa.eu/?type=AX.

If not, before applying to this position, **you must register** for one of the two following:

- the Call for Expressions of Interest | EU Careers (europa.eu) (CAST Permanent FG IV), which is used by a wide range of organisations (institutions, bodies, offices and agencies of the European Union), or
- the specialised call for researchers (JRC Call COM/1/2015/GFIV – Research), which is mainly used by the JRC.

Note that each of the calls above has **different minimum eligibility requirements and different selection tests**.

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