



VACANCY NOTICE – 2023-PTT-C1-FGIV-023037

Project Officer – Assessment of environmental impacts for large scale hydrogen installations

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 1 st 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 job consists on assessing the impact of deploying hydrogen technologies on local environments and natural resources. In particular, the jobholder will analyse, within both a European and non-European contexts, the potential effects on natural resources of production of hydrogen.

We offer the possibility to work in an international and dynamic working environment with a competitive salary and benefits. You will be working at the interface between science and policy, providing technical expertise contributing to the design and development of European energy and industrial policies. Opportunities to interface with internal and external experts and grow in the role are encouraged.

The position offers opportunities for continuous professional development, training and participation in international conferences and policy-relevant forums.



WE PROPOSE

The work involves the collection and analysis of data pertaining to technical parameters for hydrogen applications and the assessment of their local impacts. For instance, renewable hydrogen production requires the consumption of water and electricity at the production site and will have to be integrated with existing assets, or require the construction of brand new infrastructure where not available. Relevant aspects of this work will relate to the uncertainty around electricity and water availability under climate change scenarios in European regions and the impact of seasonality on freshwater and renewable electricity availability for renewable hydrogen production.

The successful candidate will:

- Retrieve and derive relevant indicators able to characterise impacts of hydrogen technologies. This involves developing a suitable collection and sorting methodology, as well as the establishment of an effective direct working relationship with relevant experts;
- Setting-up datasets to structure and facilitate relevant data retrieving and updating;
- Describe and quantify the impact of hydrogen technologies and related assets on local infrastructure, natural resources and ecosystems;
- Support modelling activities aimed at describing and defining impacts of industrial installations producing and consuming hydrogen;
- Help understanding how hydrogen technologies can be sustainably and effectively integrated in large-scale industrial installations;
- Report the outcome of investigations 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.

WE LOOK FOR

The ideal 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 hydrogen technologies, hydrogen value chains and renewable hydrogen production is desirable, but not necessary if the candidate can provide sufficient evidence of possessing a sound understanding of the technical principles and deployment challenges at the base of such technological applications.

An understanding of chemical engineering, plant design, planning of large scale industrial installations, complex local hydrogen ecosystems or similar competences would be an advantage for this job.



Familiarity with environmental impact indicators, and experience with using appropriate tools will be considered a key asset. The ability to use a programming tool such as R, Matlab or Python based scripts, and/or GIS tools would be useful.

Knowledge of European and International goals and policies with respect to hydrogen and energy storage would be a valuable asset, as would experience with the integration of several hydrogen technologies and applications in a region (or Hydrogen Valley). 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 F G 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.