



VACANCY NOTICE – 2023-PTT-C7-FGIV-023156

Project Officer – Techno-economic Energy System Modelling

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	Energy systems and markets modelling and analysis
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 European Commission's [Joint Research Centre \(JRC\)](#) provides independent, evidence-based knowledge and science, supporting EU policies to positively impact society.

The current vacancy is with 'Energy Transition Insights for Policy' Unit, Directorate C – Energy, Mobility & Climate, of the JRC: Unit C.7 mission is to carry out energy research and analysis, making sense of trends, data and scientific evidence to support a just, competitive and resilient transition to a climate-neutral EU, focusing on innovation & competitiveness, the decarbonisation of industry and heating & cooling, supply chains, infrastructure planning, renewables integration and social aspects of the energy transition.

Our staff (about 45) is mainly based in Petten (NL). A convenient bus service connects our offices to the cities of Alkmaar and Amsterdam. Children of employees can attend the [European School in Bergen](#).

More information about CAST Permanent and contract agents in the European Institutions is available in this FAQ EPSO page [Contract agents | Careers with the European Union \(europa.eu\)](#).

We are looking for an energy system modelling specialist for our Integrated Modelling of Energy Systems and Markets team. The team performs energy system and market modelling exercises to support European policy makers in understanding current energy system and market dynamics and the effects of the long-term transition to climate neutrality. You will be working at the forefront of science to shape the EU's energy policies.

We offer a dynamic position in an international organisation with a competitive salary and benefits. You will be working at the interface between science and policy, contributing to the design and development of energy and industrial policies with scientific analysis, working in close partnership with other teams within our unit, industrial experts and policymakers.

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



WE PROPOSE

We offer a dynamic position in an international organisation to assess the impacts, challenges and opportunities of the transition to a climate neutral European energy system using modelling techniques. You will work at the interface between science and policy and support European energy policy making with the analysis of relevant knowledge and data, the generation of new evidence, the anticipation of evolving trends and their effective communication. The expected outputs include knowledge and research syntheses, impact assessments and data analyses that will be largely based on quantitative analysis/modelling.

In this position you will be interacting with EU policy-makers, relevant international organisations, and stakeholders from European industry and academia. You will work in close collaboration with other colleagues and maintain close contacts with stakeholders in and outside the Commission, most notably DG ENER. The position further offers opportunities for continuous professional development, training and participation in international conferences and policy-relevant forums.

The functions and duties of **this position** include:

- Develop competencies for techno-economic energy system analysis, building energy system models & datasets, to assess energy scenarios/contexts that support the transition to a climate neutral European energy system.
- Provide scientific support for policy design by investigating issues like multi-energy system integration, power and hydrogen network investments, the climate-energy nexus and understanding price developments and market design principles to advance the implementation of European energy objectives;
- Elaborate, organise and disseminate the results from energy system modelling exercises and support the activities of the Unit related to the implementation of the European Green Deal and support the implementation of REPowerEU.
- Effectively communicate and present findings to partner policy DGs and at international conferences, and author related research reports, scientific publications, knowledge factsheets and policy support briefs;

Typical outputs from our team are JRC reports and briefs that underpin EU policies and measures, conference proceedings, and where appropriate, scientific journal papers.

WE LOOK FOR

Profile:

You should apply for this position if you are passionate to work at the forefront of science and EU energy policies, produce modelling insights on policy relevant energy system and market developments and analyse how the decarbonisation of the European energy system can contribute to the transition to climate neutrality. This position can be very fulfilling and, in order to be successful in this role, you should:

- Have an analytical mindset and solid quantitative modelling skills. You can collect and make sense of large volumes of information, and make decisions or recommendations based on solid analysis.
- Be a good and proactive communicator. You should be able to speak (B2 level) and write clearly (C1 level) in English and interact with different stakeholders.



- You can take initiative, lead a number of different projects and be able to work with little supervision.
- Be a team player. Our main results often incorporate inputs from many colleagues. It is important in this position to be able to work in a team, be open-minded and listen to other people's contributions.

Qualifications and competences:

- Candidates should have an advanced degree in relevant scientific, engineering, economic fields and a minimum of 2 years relevant professional experience, e.g. in the energy sector, or a doctoral diploma with relevant research experience.
- Expertise in energy systems, markets, design and regulation, with prior experience on the functioning of European power and gas systems is essential.
- Experience with power system modelling and programming languages such as Python, R or other data management tools would be considered a strong advantage.
- Very good drafting skills and synthesis ability in English, supported by a publications/reports list; any other languages would be regarded as an asset.
- We look for a person with strong interest on energy issues, with an interest to take initiative, developing new concepts and be a strong team player. The following characteristics are thereby important: flexibility, collaborative attitude, clear writing and ability to identify gaps in knowledge and evidence for policy considerations.

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.