



2022-PTT-C3-FGIV-020290

FG IV – Expert in the interaction gas - electricity

**POSITION FOR:**

Member of the contract staff FGIV – 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 current vacancy is in the C3 Energy Security, Distribution and Markets Unit of Directorate C - Energy, Transport & Climate of the JRC. The Unit comprises of about 50 staff members based in the JRC Petten (NL), Ispra (IT) and Seville (ES) sites.

The Energy Security, Distribution and Markets Unit informs and supports the energy policy-making processes, particularly in the electricity and gas fields. Our Unit's activities are framed in the context of the EU's climate-neutrality policies, particularly the Green Deal and Digitalisation initiatives. Such policies call for a profound rethinking and transformation of our energy systems and markets, subject to growing decarbonisation, decentralisation, electrification and digitalisation forces and trends.

More information on our Unit's power-related activities is accessible here: <https://ses.jrc.ec.europa.eu/>.

**WE PROPOSE:**

Amongst other activities, our Unit conducts analysis of the contribution that gases (natural gas, hydrogen, biogas and bio-methane) may play in the decarbonisation of the energy system. The increasing electrification of the energy system, the increasing penetration of renewable energy sources and the phasing out of coal, have put gas in a central role in the energy system of many EU Member States. The reliance on natural gas producing countries for the supply of this fuel, and particularly on the main supplier to the EU, Russia, makes necessary to study the interaction gas – electricity in depth and from different angles.

In this context, our Unit is looking for a new colleague tasked to:

- Conduct research activities on the interaction gas – electricity in the EU, both at national and regional level (in the sense of group of countries), in cases where the share of gas in electricity production and/or where the fraction of gas demand dedicated to produce electricity is large. The research will be done via analysis of operational data and modelling.
- Contribute to the identification of data from different sources (public, commercial, even confidential), their acquisition, management and analysis.
- Interact with relevant governmental, regulatory, industrial (and other) stakeholders in the natural gas and electricity production, transportation and consumption.
- Contribute with scientific and technical expertise to related institutional activities of our Unit (e.g.: contribute to policy briefings).
- Report the outcome of investigation activities in technical reports and peer-reviewed scientific publications.
- Participate in research projects and international cooperation activities.

This position offers varied tasks and access to advanced simulation tools and cutting-edge research infrastructure, in a friendly and multi-disciplinary team. It also offers opportunities for continuous professional development, training and participation in scientific and policy-relevant conferences/fora.

**WE LOOK FOR:**

In order to be successful in this role you should:

- Have completed relevant university studies of at least three years (attested by a diploma) and at least 3 years of professional experience/PhD in a field relevant to the position such as (but not limited to) Engineering, Physics, Mathematics, Chemistry or similar.
- Have a broad understanding of how networks work and interact, particularly gas and electricity transmission networks.
- Have good programming and statistical skills.
- Experience in modelling and simulation of energy networks, or alternatively other networks such as heat or water networks would be desirable.
- Be passionate about working at the intersection of science and EU policy making in the energy field.
- Be able to work in a team and in a multi-cultural environment.
- Be a dynamic, creative, motivated and proactive person with a strong sense of responsibility and commitment to deliver.
- Be able to communicate and interact with different stakeholders.
- Have an English level at least equivalent to B2.

**INDICATIVE CONTRACT'S DURATION:**

36 months initial contract with possible renewals up to maximum 6 years.

**PLACE OF WORK:**

Petten (NL)

**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](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 Joint Research Centre

- 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.