EUROPEAN COMMISSION
JOINT RESEARCH CENTRE

2022-IPR-C3-FGIV-021029 **FG IV - Digital Energy Solutions Specialist**

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 current vacancy is in the Energy Security, Distribution and Markets Unit of the Directorate for Energy, Transport and 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, subjected 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/.

Amongst other activities, our Unit runs a Living Lab for testing digital energy solutions. The Living Lab aims to create at the JRC a real-life testbed for private and public research organisations, tech firms and start-ups willing to conduct testing and validation of smart energy solutions.

The Living Lab takes advantage of the JRC's existing physical infrastructures, the large user community, as well as expert staff and dedicated research facilities to develop a new people-centric way to support EU policies. The Living Lab also implements services and solutions identified by the staff needs, which are elicited through ad-hoc engagement workshops and gamification activities.

WE PROPOSE:
In this context, we propose a temporary position as scientific project officer - Digital Energy Solutions Specialist to support the implementation of smart city solutions on digital energy in collaboration with technology practitioners. Main tasks will include:

- Design and implementation of IoT environments, including the integration and interoperability of different technological components (e.g. connectivity technologies and protocols, etc.).
- Prototype devices for energy metering and data acquisition / visualisation using both open and proprietary sensors, programmable boards, network interfaces, databases.
- Application of machine-learning tools and interpretation of results.
- Keep contacts with other living lab realities for knowledge exchange.

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 have at

least 3 years of professional experience/PhD in a field relevant to the position such as (but not limited to) electrical, computer, automation and/or system engineering.

- Be passionate about working at the intersection of science and EU policy making in the energy field.
- Possess a good knowledge of the technologies for smart solutions and their applicability in different contexts. Specific expertise about the set up and maintenance of dedicated networks for data acquisition is essential. Examples of employed technologies include: time series databases (e.g. Influx), Raspberry Pi and Arduino, long range connectivity (e.g. LoRa, ZigBee), dashboards for time series visualization (e.g. Grafana), IoT protocols (e.g. MQTT, UDP).
- Have experience in user-led and do-it-yourself approaches employing open source technologies, as well as experience in coding (e.g. Matlab, Python) and statistics.
- 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:
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 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.