EUROPEAN COMMISSION

JOINT RESEARCH CENTRE

2022-IPR-C4-FGIV-019932

FG IV - Policy officer – Light Duty Vehicle energy consumption and CO2 emissions certification, monitoring and testing

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 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 Sustainable Transport Unit of the Directorate for Energy, Transport and Climate.

The Sustainable Transport Unit supports the development and implementation of European policy and legislation on motor vehicle.

The Unit is responsible for activities aiming to characterize the energy performance and carbon emissions of light-duty road vehicles and monitor the progress in meeting the established CO2 emission targets. The STU is providing research for policy support to DG Climate Action on existing and developing regulations aiming to reshape and extend regulations covering light-duty vehicle fuel consumption and greenhouse gas emissions. The STU focuses also on activities that monitor the implementation of existing regulations, and the vehicular CO2 emissions certification process inside the EU. For this purpose, the STU is conducting experimental tests and developing internally ad-hoc vehicle simulation and data collection/analysis software. The combination of testing, vehicle simulation, and data collection allows for a comprehensive assessment of the energy consumption at the vehicle and fleet levels.

WE PROPOSE:

A position as policy officer who will be responsible for activities related to vehicle certification, emissions monitoring, and will contribute to the development of vehicle in-service verification procedures and real world fuel consumption monitoring systems.

The daily tasks will include vehicle testing, analysis of regulations on vehicle emissions, data analysis and modelling, communication with other Commission DGs and Agencies. The researcher will design and follow test campaigns of innovative vehicle systems in the VELA labs of the JRC, in real-world conditions or third party labs and proving grounds, to gather sufficient data to support the development and validation of test protocols and procedures (eg WLTP). The work will be carried out in close collaboration with colleagues within the Directorate, other Directorates of the JRC.

The tasks of the successful candidate will include:

- Follow the developments in EU policy in the field of light-duty CO_2 emissions and fuel consumption certification and monitoring, and contribute to the respective activities of the STU.
- Design, support, and steer the execution of test campaigns
- Collect, analyse data from the test campaigns, online sources, or data retrieved from the EU vehicle certification process
- Help design information systems based on regulatory provisions, and guide experts for the extension of existing ones
- Disseminate scientific results with particular emphasis on scientific papers and reports.

WE LOOK FOR:
A researcher with excellent understanding of the road-vehicle certification framework, the capacity to steer and coordinate experimental test campaigns and expertise in the development of numerical tools and algorithms for data analysis and reporting.

We look for a person with a strong interest and understanding of road vehicle technologies, testing, the WLTP, and international regulation.

The expert should have a good aptitude for taking initiative, developing new concepts and being a strong team player. The candidate shall have completed university studies of at least three years attested by a diploma in Science or Engineering and at least five years of professional experience in a field relevant to the position, or alternatively shall have acquired a doctoral degree in Science, Mechanical, Automotive, Energy, Vehicle or similar Engineering fields, relevant to the position offered.

In addition, the following qualifications are considered as an asset:

- Solid record of scientific publications including peer-reviewed papers and scientific reports
- Good Knowledge of vehicle homologation regulations and processes
- Good knowledge of vehicle powertrain technologies, emissions, or vehicle diagnostic systems
- Knowledge of Python or other similar computer languages for data collection, handling, and analysis;
- Proven ability to work in a team and in a multi-cultural environment;

Very good oral and written communication skills in English (B2) are essential.

INDICATIVE CONTRACT'S DURATION:
36 months initial contract with possible renewals up to maximum 6 years.

PLACE OF WORK:
Ispra (IT)

RULES AND ELIGIBILITY:
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 JRC
• 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.