



2022-IPR-C4-FGIV-021168

FG IV - Project Officer - Safety of Connected and Automated Vehicles

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

The Joint Research Centre's Directorate for Energy, Transport and Climate provides support to Community policies and technology innovation related to: energy – to ensure sustainable, safe, secure and efficient energy production, distribution and use; transport – to foster sustainable and efficient mobility in Europe; climate – to provide scientific and technical analyses in support to integrated air quality, climate and related policies.

The Sustainable Transport Unit (STU) aims to give scientific/technical support to the development of Commission policies in the field of sustainable and smart mobility. It provides technical and scientific assessments of advanced clean and intelligent transport technologies and of alternative fuels use through laboratory experiments in its large test facilities VELA, through real-world experiments within its Living Lab for Future Mobility Solutions and through modelling tools. The STU supports the electrification of road transport by running the European Electric Vehicle Interoperability Centre and providing scientific support to international standardization and harmonization. The Unit supports the competitiveness of the European transport industry by assisting in the development of the Strategic Transport Research and Innovation Agenda (STRIA).

WE PROPOSE:

The Sustainable Transport Unit supports EU policies in the field of mobility, including Cooperative, Connected and Automated Driving.

The transport sector is currently undergoing a radical transition towards higher levels of automation and connectivity. In order to allow market introduction of such new technologies, Europe needs to suitably update and harmonise all relevant regulations, since the lack of the right legal framework currently represents a barrier to automated and autonomous vehicles (AVs) deployment in the EU. In Particular, the introduction of innovative type approval approaches is required to assess and verify AVs safety, since the conventional physical testing approach alone will not be sufficient to evaluate the vehicle performance in real world driving conditions. Therefore new approaches for safety assessment and validation are being designed and developed, taking into account analytical methodologies as well as different levels of testing (e.g. virtual testing, proving ground and field tests), including simulations. The main regulatory challenge at present stands in ensuring that an appropriate level of safety is reached by all vehicles sold on the market, not only establishing reliable safety requirements but also establishing new safety assessment approaches.

Since 2018 the Sustainable Transport Unit supports DG GROW in the evaluation of different innovative approaches to be introduced in the new AVs type-approval legislation. The SAFE-TYPE2 AA between the Sustainable Transport Unit and DG GROW sets the objectives for 2021-22 in terms of desktop and

experimental research activities, as well as outreaching activities and collaboration in international working groups.

In this context, we propose a contract agent position as project office who should contribute to the ongoing research activities, with focus on procedures/methodologies for safety certification of automated vehicles.

WE LOOK FOR:

a person with strong interest and understanding of automotive systems, vehicle technologies and safety aspects. The candidate should exhibit proven experience in the fields of AVs development or safety validation and relevant research activities, and should have a good aptitude of taking initiative, developing new concepts and being a strong team player.

The candidate must hold a doctoral degree in Mechanical, Automotive, Energy, Vehicle or other Engineering fields relevant to the position offered or alternatively, at least five years of professional experience in a field relevant to the position following a master degree in Engineering or Science.

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

- Experience with AVs simulation tools and testing in virtual environment
- Familiarity with monitoring of AVs safety performance during operation in real life
- Knowledge of ISO 26261, ISO/PAS 21448, UL4600, and similar standards to evaluate the safety of automated and autonomous vehicles is an advantage;
- Solid record of research activities relevant for the post including publications in international peer-reviewed journals;
- 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:

Ispira (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/en/documents/call-expressions-interest-0>

or

– (iii) be registered in the specialised call for researchers https://joint-research-centre.ec.europa.eu/working-us/jobs-jrc/temporary-positions/contract-staff-members/function-group-iv/job-opportunities-research-fellows-european-commission_en (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.