



2022-IPR-C4-FGIV-022194

FG IV - Project Officer - Safety of Connected and Automated Vehicles_Human Factors

POSITION FOR:

Member of the contract staff FG IV – art. 3b of the [Conditions of Employment of Other Servants](#)

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 low-carbon technologies for transport. 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, 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 all vehicles sold on the market reach an appropriate level of safety. This can be achieved complementing suitable safety requirements with new safety assessment methods and monitoring approaches.

Since 2018, the unit is involved in the definition of the new type approval framework for automated vehicles at both EU and UN level, supporting DG GROW in the evaluation of different innovative approaches for safety certification. The SAFE-TYPE3 Project identifies the development of the new regulatory framework for Advanced Driver Assistance Systems (ADAS) as a priority for 2022-24 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 Project Officer position. The selected candidate will contribute to the ongoing research activities, with focus on evaluation of human factors in automated driving.

We propose an interesting position in a small dynamic team dedicated to pre-normative research on safety of connected and automated vehicles. The successful candidate will work in an international environment, interacting with leading researchers and regulators worldwide, contributing to the policy making process through active participation in EU and UN working groups.

The work includes planning of testing campaigns, experimental activity on test track and on-road, instrumentation setup and data collection, as well as desktop activities, e.g. data analysis and modelling, participation to technical meetings and workshops, collaboration with external experts, dissemination of results through oral presentations, written publications, participation to conferences.

WE LOOK FOR:

Candidates with strong interest and understanding of automotive systems, vehicle technologies and safety aspects. The candidate should exhibit proven experience in the field of human factors in automated driving 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 have completed university studies of at least three years attested by a diploma in Science or Engineering or at least five years of professional experience in a field relevant to the position, or alternatively, shall have acquired a doctoral degree in Mechanical, Automotive, Energy, Vehicle or similar Engineering fields relevant to the position offered.

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

- Expertise on designing experiments for human-machine interaction, data collection and analysis;
- Knowledge of driver monitoring and driver engagement strategies;
- Driver behaviour and decision making modelling;
- 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:

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](#)

or

– (iii) be registered [in the Specialised Call for 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 its [vacancy page](#).

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.