



2020-IPR-C4-FGIV-014728

FG IV - Project Officer - Research Fellow – Impact of Connected and Automated Vehicles on Road Traffic and related externalities**Position for:****FGIV – Project Officer**

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 Sustainable Transport Unit (STU) of the Directorate for Energy, Transport and Climate, is responsible for a series of activities aiming to support EU policies in the field of road transport, including Cooperative, Connected and Automated Driving.

In particular, the STU is trying to understand the implications of a Connected and Automated Mobility on several dimensions of our society. One of the aspects on which the Unit is focusing its attention is the impact of Connected and Automated Vehicles (CAVs) on traffic flow. The research focuses both on understanding how the technologies that will soon be deployed will change road traffic dynamics and to define the technologies and their functional requirements that would allow CAVs to improve traffic flow and to make its management more effective. The research looks at both traffic efficiency and the related externalities (namely fuel/energy consumption, pollutant emissions and safety).

In this context, the STU is looking for a contract agent who will support the ongoing research activities. The researcher will use and further improve the simulation platform developed in-house to model CAVs, their interaction with the surrounding traffic and their contribution to achieve a better traffic management. To do so, she/he will also contribute to design and execute testing campaigns (both in the JRC VELA Labs and in on-road) with the objective to achieve an experimental understanding of the CAVs operational strategies.

The work will be carried out within a small team of STU researchers and will involve collaboration with colleagues within the Directorate and other Directorates of the JRC. The work will also contribute to international research projects which the STU is contributing to.

The successful candidate will be in charge of:

- Developing, calibrating and validating simulation models for advanced driving assistance and automation systems and traffic management strategies;
- Designing and supporting the execution of ad-hoc test campaigns to collect the data needed in the modelling process;

	<ul style="list-style-type: none"> Collecting, filtering and analysing data from the test campaigns; Designing and writing software code to support the development of the aforementioned tasks; Writing scientific publications to disseminate the outcomes of the work carried out. <p>Qualifications:</p> <p>We look for a person with strong interest and understanding of new vehicle technologies and traffic dynamics, who will have a good aptitude of taking initiative, developing new concepts and being a strong team player.</p> <p>The candidate shall have completed university studies of at least five years attested by a diploma in Science or Engineering or at least five years professional experience in a field relevant to the position.</p> <p>In addition, the following qualifications are considered as an asset:</p> <ul style="list-style-type: none"> Knowledge of automotive, traffic, mechanical/energy engineering; Knowledge of software tools and programming languages for data collection, handling, and analysis; 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. <p>Very good oral and written communication skills in English (B2) are essential.</p> <p>The Joint Research Centre is an equal opportunity employer and is committed to increasing the diversity of its staff. It welcomes applications from women and minority groups.</p>
Directorate Unit	<p>Energy, Transport and Climate Sustainable Transport Unit</p> <p>Further information: https://ec.europa.eu/jrc/en/</p>
Indicative duration	<p>36 months initial contract with possible renewals up to maximum 6 years</p>
JRC Site Country	<p>Ispira</p> <p>Italy</p>
Rules and eligibility	<p>The candidate must be on a valid EPSO reserve list for Function Group IV contract staff.</p> <p>If you are not in any valid EPSO reserve list for Function Group IV contract staff, you can still apply by following these steps.</p> <p>You express your interest by applying to the CAST Permanent or to the permanent JRC Call for researchers.</p>

	<p>1. CAST Permanent: open-ended selection procedure to create a pool of candidates from which the institutions, bodies, offices and agencies of the European Union (EU) can recruit contract agents. https://epso.europa.eu/documents/2240_en</p> <p>2. JRC Call COM/1/2015/GFIV – Research: open-ended selection procedure to create a pool of candidates from which mainly the JRC can recruit contract agents FGIV as researchers. Details available at the link below: https://ec.europa.eu/jrc/en/working-with-us/jobs/vacancies/function-group-IV-researchers</p> <p>Only then you can apply for this specific position, through http://recruitment.jrc.ec.europa.eu/?type=AX</p> <p>Auxiliary contract staff: https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/contract-staff-members</p> <p>Article 3b of the Conditions of Employment of Other Servants of the European Union applies: the actual period of employment within the Commission under this type of contract, including any period under renewal, shall not exceed 6 years.</p> <p><i>Please note that in case a high number of applications is received only shortlisted candidates will be contacted.</i></p>
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