



2019-IPR-A5-FGIV-011521

**FGIV – Scientist - Exploratory Research Project  
Blockchain for Transport (BC4T)**

<p><b>Position for:</b> <b>FG IV Scientist</b></p>	<p>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.</p> <p>The JRC is located in 5 Member States (Belgium, Germany, Italy, the Netherlands and Spain). Further information is available at <a href="http://ec.europa.eu/jrc/">http://ec.europa.eu/jrc/</a></p> <p>The JRC offers a vacancy for a Contract Agent within the Exploratory Research Project BC4T (Blockchain for Transport).</p> <p>The JRC Exploratory Research Programme (ER) is a strategic initiative characterised by ideas that might lead to novel results to qualitatively enrich current JRC scientific work.</p> <p>The ER Project BC4T will investigate possible applications of Blockchain (BC) technology in the road transport sector, focusing on issues of priority to the European Commission. The BC4T project will focus in particular on the application of BC for real-world CO2 emissions monitoring and vehicle ledger and identity, and BC security. BC4T aims to enhance the JRC know-how on BC-technology relevant to road transport, to provide a policy review on the topic, develop and demonstrate experiments and practical prototypes, and analyse possible policy implications.</p> <p>The successful candidate will be in charge of carrying out all aspects of the BC4T project, including:</p> <ul style="list-style-type: none"><li>• Perform scientific research in the field;</li><li>• Design a system for vehicle data collection and storage and propose integration paths with a Blockchain structure;</li><li>• Design, implementation and testing of relevant prototypes;</li><li>• Set up of computer simulations;</li><li>• Running experiments on real vehicles;</li><li>• Drafting requirements and specifications for vehicle to vehicle and vehicle to infrastructure communication;</li><li>• Data analysis;</li><li>• Dissemination/publication of results.</li></ul> <p>Qualifications:</p> <ul style="list-style-type: none"><li>• Completed university studies of at least three years attested by a diploma and at least five years professional experience in a field relevant to the position, alternatively a doctoral diploma in Computer Science and Business Technology, Electrical, Electronic or Telecommunications engineering or related field is essential;</li><li>• Extensive experience in software engineering or computer science is essential;</li><li>• Broad knowledge in the area of connectivity, communication systems and information technology is essential;</li></ul>
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	<ul style="list-style-type: none"> <li>• Knowledge of automotive engineering is an advantage;</li> <li>• Solid record of research activities relevant for the post including publications in international peer-reviewed journals is an advantage;</li> <li>• Post-graduate education in one of the relevant fields is an advantage;</li> <li>• Very good oral and written communication skills in English (B2) are essential, knowledge of other languages is an advantage.</li> </ul> <p>In addition, the following competences will be considered as an advantage:</p> <ul style="list-style-type: none"> <li>• Ability to work in a team and in a multi-cultural environment;</li> <li>• The candidate is expected to be creative and work independently.</li> </ul>
<p><b>Directorate Unit</b></p> <p><b>Project</b></p>	<p>Energy, Transport and Climate Sustainable Transport</p> <p>The Scientific Development Unit of the Directorate for Strategy and Work Programme Coordination is in charge of the overall JRC Exploratory Research Programme.</p> <p>The operational scientific research will take place in the Sustainable Transport Unit in Ispra (Italy).</p> <p>Exploratory Research Project: Blockchain for Transport (BC4T)</p> <p>Further information is available at: <a href="https://ec.europa.eu/jrc/en/science-area/energy-and-transport">https://ec.europa.eu/jrc/en/science-area/energy-and-transport</a></p>
<b>Indicative Duration</b>	18 months
<p><b>JRC Site</b></p> <p><b>Country</b></p>	<p>Ispra</p> <p>Italy</p>
<b>Rules and eligibility</b>	<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. <a href="https://epso.europa.eu/documents/2240_en">https://epso.europa.eu/documents/2240_en</a></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: <a href="https://ec.europa.eu/jrc/en/working-with-us/jobs/vacancies/function-group-IV-researchers">https://ec.europa.eu/jrc/en/working-with-us/jobs/vacancies/function-group-IV-researchers</a></p> <p>Only then you can apply for this specific position, through</p>

<http://recruitment.jrc.ec.europa.eu/?type=AX>

**Auxiliary contract staff:**

<https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/contract-staff-members>

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.

*Please note that in case a high number of applications is received only shortlisted candidates will be contacted.*