



**2018-IPR-C-000-010337**

**Data collection and set up of an in-use  
database for vehicle energy consumption  
and CO<sub>2</sub> emissions simulation**

<p><b>Position for:</b></p> <p>Trainee</p>	<p>As the science and knowledge service of the Commission, the mission of 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://www.jrc.ec.europa.eu">http://www.jrc.ec.europa.eu</a></p> <p>The Sustainable Transport Unit of the Institute, comprising more than 50 staff, provides scientific and technical support on clean and efficient fuels and vehicles for sustainable mobility.</p> <p><b><u>Short description of activity:</u></b></p> <p>The JRC is currently supporting major initiatives of the European Commission in the field of CO<sub>2</sub> emissions reduction from light and heavy duty vehicles. Novel methodologies are being developed for accurately quantifying emissions of various on road vehicles using experimental measurements and computer simulation methods.</p> <p>The proposed trainee project consists in joining on-going research programs on road transport generated CO<sub>2</sub> emissions. The trainee will assist in the collection and processing of extensive datasets available to the STU regarding the operation of road vehicles. The trainee will collaborate to the development of a dedicated database of in-use factors, conditions and vehicle data to be linked with existing tools and models.</p> <p>The candidate is also expected to contribute to the analysis of data from experimental tests and simulations and help in the validation of software tools developed in house. The trainee's support will involve developing computer code in Python or other relevant language for data analysis and drafting of the respective technical reports.</p>
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	<p><b><u>Qualifications:</u></b></p> <p><b><u>Essential:</u></b></p> <ul style="list-style-type: none"> <li>• University degree in the fields of computer science, mathematics or data engineering.</li> <li>• Good knowledge of spoken and written English. (B2 level)</li> </ul> <p><b><u>Advantage:</u></b></p> <p>Knowledge of one or more of the following will be an advantage:</p> <ul style="list-style-type: none"> <li>• databases,</li> <li>• computer programming (python),</li> <li>• data analysis and statistics,</li> <li>• data warehousing and visualization</li> </ul> <p><b><u>For general eligibility requirements, please read the rules governing the traineeship scheme of the JRC:</u></b></p> <p><a href="https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees">https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees</a></p>
<b>Unit /Directorate</b>	Directorate C - Energy, Transport and Climate  C.4 Sustainable Transport Unit
<b>Indicative duration</b>	5 months
<b>Preferred starting date</b>	As soon as possible
<b>JRC Site</b>	Ispra
<b>Country</b>	Italy
<b><u>JRC contact details</u></b>	<p><b>For any technical problems with your application, please contact:</b></p> <p><a href="mailto:HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu">HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu</a></p>