



2015-IPR-F8-FGIV-6214

**FG IV Scientific/ Technical project officer –  
Traffic emission modeller**

**Position for:**

**FG IV Scientific/ Technical  
project officer**

The Joint Research Centre (JRC) is the European Commission's in-house science service which employs scientists to carry out research in order to provide independent scientific advice and support to EU policy.

Further information is available at:  
<https://ec.europa.eu/jrc/en>

The Sustainable Transport Unit of the Institute for Energy and Transport, comprising more than 50 staff, provides scientific and technical support on clean and efficient fuels and vehicles for sustainable mobility. The Unit supports also policies on intelligent and autonomous transport.

The Contract Agent will contribute to an exploratory project on autonomous road transportation. She/he will study the state-of-the-art on the current trends in modelling the behaviour of autonomous vehicles and autonomous road transportation systems. The contract agent will interact with traffic and emission modellers to achieve a complete integration between traffic modelling, vehicle simulation and emission modelling. He will also contribute to the development of methods/algorithms for real-time traffic optimization.

The work will be carried out in close collaboration with colleagues within the Institute and other Institutes of the JRC. The preparation of reports and scientific publications are an integral part of the required tasks. It also involves contacts within and outside the Commission.

**Qualifications:**

The ideal candidate should have a PhD degree or a minimum of 5 years of full-time relevant research experience after the first University degree giving access to doctoral (PhD) studies in the field of Engineering, Physical or Behavioural Science.

Knowledge of traffic dynamics and the corresponding modelling/simulation approaches is desirable.

Programming and database management skills are required (Python, Java or C++ languages and ORACLE DBMS represent an advantage). Prior knowledge in intelligent/autonomous transport systems and human-machine interaction, is advantageous.

We look for a person with strong interest on transport issues, who will have a good aptitude of taking initiative, developing new concepts and be a strong team player.

Good command of English is required. Good drafting skills, particularly in English, supported by a publications list are essential.

This position offers a number of varied and interesting tasks in a friendly and well integrated Unit to a motivated, flexible and reliable colleague.

<b>Institute/Directorate Unit</b>	Institute for Energy and Transport Sustainable Transport  Further information: <a href="https://ec.europa.eu/jrc/en/institutes/iet">https://ec.europa.eu/jrc/en/institutes/iet</a>
<b>Indicative duration</b>	12 months initial contract with possible renewals up to maximum 6 years
<b>JRC Site</b>  <b>Country</b>	Ispra  Italy
<b>Rules and eligibility</b>	<p><b>The candidate must be on a valid EPSO reserve list for Function Group I-II/III/IV contract staff or have applied to the permanent open call for researchers FG IV:</b></p> <p><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>Auxiliary contract staff:  <a href="https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/contract-staff-members">https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/contract-staff-members</a></p> <p><i>Please note that due to the high number of applications received only shortlisted candidates will be contacted.</i></p>