EUROPEAN COMMISSION
DIRECTORATE-GENERAL HUMAN RESOURCES AND SECURITY
Directorate HR.AMC –Account management Centre
HR.DDG. AMC 8

2018-IPR-C-000-010210	**Impact of connected and automated vehicles on traffic and energy consumption**

Position for: Trainee	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: http://www.jrc.ec.europa.eu 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. **Short description of activity:** The JRC is carrying out research to analyse technical and societal issues connected to the introduction of automated vehicles on road transport. The project is composed by two parts: in one part the political implications of introducing autonomous vehicles and of a higher degree of automation in the transportation system is analysed. In the second part, a simulation platform, based on the Aimsun traffic simulation environment is being developed and used to assess the impact of connected and automated vehicles on traffic, energy consumption and environment. Under the supervision of a scientific supervisor, the selected trainee will contribute to the second part of the project, and in particular in working with the existing team to develop and simulate scenarios of automated vehicles introduction. In particular, the inclusion of automated vehicle in a broader context of automated road transport will be studied and assessed. Part of the tasks might involve developing computer code in Python or other relevant language for software development to customize the simulation platform to the needs of the automated vehicle simulation.

	Qualifications: **Essential:** University degree in the fields of science or engineering; Good knowledge of spoken and written English (B2 level). **Advantage:** Knowledge of one or more of the following will be an advantage: traffic simulation, computer programming, data analysis and statistics. **For general eligibility requirements, please read the rules governing the traineeship scheme of the JRC:** https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees
Directorate **Unit**	Directorate C - Energy, Transport and Climate C.4 Sustainable Transport Unit
Indicative duration **Preferred starting date**	5 months As soon as possible
JRC Site **Country**	Ispra Italy
JRC contact details	**For any technical problems with your application, please contact:** HR-AMC8-RECRUITMENT-TOOLS-SUPPORT@ec.europa.eu