



2021-SVQ-C6-FGIV-016888

FG IV Project Officer - Transport Policy Analyst

POSITION FOR:

Member of the contract staff FGIV – art. 3b of the Conditions of Employment of Other Servants
<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CONSLEG:1962R0031:20110101:EN:PDF>)

WE ARE:

The Joint Research Centre (JRC) is the European Commission's science and knowledge service and provides scientific advice 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 current vacancy is in Directorate C – Energy, Transport & Climate, The Economics of Climate Change, Energy and Transport Unit (JRC.C.6)

The Unit JRC.C.6 carries out economic analyses of climate, energy and transport policies, both at the EU and global levels, using different databases and expertise with in-house economic models and econometric tools.

WE PROPOSE:

The JRC is seeking to reinforce the team in charge of graph theory applications for EU policy analysis with a researcher with proven experience in network (and demand) modelling in the field of transport policy. The successful candidate will participate in the development and application of in-house modelling instruments for the quantitative analysis of European transport policy.

The JRC is in the process of developing further EU-wide transport network models through the incorporation of complementary algorithms to embrace dynamic and public transport assignment processes. The overall duties for the candidate are to contribute to the development, implementation and application of these models, and the analysis and drafting of policy reports (and scientific publications) based on the results and methodologies built.

In this context, the candidate will be involved in active JRC lines of work addressing the monitoring of congestion costs across Europe through the exploitation of data from mobile devices on large-and-dense road networks, and the evaluation of impacts of alternative transport infrastructure policies on multi-modal accessibility by means of timetable-based graphs representing public transport supply across Europe.

The responsibilities include the conceptual framing of research and policy questions and the aspects defining the required comprehensive modelling effort (preparation of model inputs, data and system management, model estimation/calibration/validation/post-processing, preparation of scenario forecasts, project management, technical assistance, etc.).

The candidate will have to actively contribute to the research profile of the Unit and participate in the JRC exploratory research agenda, collaborating with other teams on related policy-relevant scientific topics, within the C.6 Unit, and with other JRC and European Commission Units, or with external contractors (for instance when building linkages with relevant purpose-specific models).

The candidate will join a dynamic and goal-oriented team that embraces continuous opportunities for training and career development, and provided with the tools to extend his/her research record while actively contributing to support EU policy decisions via JRC science for policy reports and briefs and other EU official publications. The candidate will be encouraged to actively participate in applicable international research fora and when needed asked to contribute to the organisation of conferences and workshops.

The position is based in Seville (ES) and involves some travelling, mainly to Brussels (BE) and Ispra (IT).

WE LOOK FOR:

The candidate must comply with the following requirements:

- A minimum of 5 years of professional experience in a field relevant to the position, gained after completion of university studies of at least 3 years (attested by a diploma), or, alternatively, a doctoral degree (PhD) in a discipline relevant to the position. Fields and disciplines of particular interest include civil engineering, economics, mathematics, computer science and operations research. Related disciplines will be considered as required, for instance, when considered together with the entire education and professional experience record of a given candidate. Candidates with a PhD focusing on (networks) modelling with a strong publication record and relevant professional experience will be considered first.
- Strong analytical and problem-solving skills to prepare informative briefings that support various aspects of the transport policy cycle, and combine those skills with the capacity for the maintenance and further development of modelling tools employed in that analysis. For the latter, robust knowledge of graph theory and their associated statistical and geospatial structure is essential.
- Demonstrated quantitative and programming skills, including the ability to conduct research utilising transport modelling software (e.g., TransCAD, PTV Visum, Cube), Geographic Information Systems (e.g. QGIS, ArcGIS, Gephi), optimisation software (e.g. GAMS), and, in general, proficiency in programming/scripting languages (e.g. MATLAB, Python, Java, C#/C++, R) to be able to maintain, exploit and further develop the modelling toolbox, and associated large datasets, employed in the Unit. Previous experience in software development in teams is an advantage.
- Competence to work autonomously and to collaborate within a multi-disciplinary team (within JRC and with other services of the European Commission) and be highly motivated for conducting applied research that contributes to the impact assessment of policy decisions at EU level.
- Excellent organisational skills (project planning, management and coordination) and ability to write and effectively present technical information to diverse groups of interest (academic research, stakeholders, industry, etc.).
- Excellent English writing and oral-communication skills. Knowledge of Spanish is not a necessary requirement (note that courses of Spanish are provided to people interested).

INDICATIVE CONTRACT'S DURATION:

36 months initial contract with possible renewals up to a maximum period of 6 years.

PLACE OF WORK:

Seville (ES).

RULES AND ELIGIBILITY:

To be eligible for the position, the candidate must be on a valid EPSO reserve list for Function Group IV contract staff.

You can be added to an EPSO reserve list if you complete successfully an EPSO selection procedure.

Candidates who are on a valid EPSO reserve list or have applied to an EPSO selection procedure can apply to this specific position through <http://recruitment.jrc.ec.europa.eu/?type=AX>.

How to apply to an EPSO selection procedure?

Apply either to the permanent EPSO call (CAST Permanent) https://epso.europa.eu/documents/2240_en or a specialised call for researchers <https://ec.europa.eu/jrc/en/working-with-us/jobs/vacancies/function-group-IV-researchers>

The CAST Permanent reserve list is used by a wide range of organisations (institutions, bodies, offices and agencies of the European Union), whereas the specialised reserve list for researchers (JRC Call COM/1/2015/GFIV – Research) is mainly used by the JRC.

RECRUITMENT POLICY:

The JRC:

- Cultivates a workplace based on respect for other people and the environment.
- Embraces non-discriminatory practices and equality of opportunity. In case of equal merit, preference will be given to the gender in minority.