



2015-SVQ-J2-FGIV-5713

**FG IV – Researcher – Dynamic Spatial General
Equilibrium Model**

Position for:

FG IV - Researcher

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 current vacancy is in the Knowledge for Growth Unit of the Institute for Prospective Technological Studies (IPTS).

The Regional Economic Modelling team of IPTS is looking for a researcher to contribute to the development of a dynamic spatial general equilibrium model for the EU (RHOMOLO). This model is being developed and used by the European Commission for assessment of the impact of EU policies and structural reforms at the regional level.

The model covers 270 NUTS2 regions of the EU, and each regional economy is disaggregated into six industrial sectors. The structure of the model departs from neoclassical computable general equilibrium approach in several places. Goods, services and labour markets are characterised by imperfect competition. Inter-regional market interactions and spatial features are captured through asymmetric bilateral trade costs connecting all regions in the EU. Spatial knowledge spillovers originate from research and development activities.

The successful candidate will work on the extension of the model in GAMS, update its database and on running simulations of EU regional policy and related fields, in particular human capital, R&D and innovation, and transport infrastructure. In addition, the candidate will estimate the underlying structural parameters econometrically.

Qualifications and requirements:

Candidates must have a PhD (doctoral diploma) or a minimum of 5 years professional experience after university studies of at least 3 years attested by a diploma.

He/she should have a strong academic background in economics/ econometrics and advanced knowledge and experience in dynamic general equilibrium modelling. His/her list of refereed journal publications should show a strong record with clear general equilibrium modelling and quantitative orientation.

A good level of written and spoken English is essential.

Institute/Directorate Unit	<p>Institute for Prospective Technological Studies Knowledge for Growth Unit – Regional Economic Modelling Team</p> <p>Further information: https://ec.europa.eu/jrc/en/research-topic/regional-economic-analysis-and-modelling</p>
Indicative duration	<p>12 months initial contract with possible renewals up to maximum 6 years</p>
JRC Site Country	<p>Seville</p> <p>Spain</p>
Rules and eligibility	<p>The candidate must be on a valid EPSO reserve list for Function Group IV contract staff or have applied to the permanent open call for researchers FGIV:</p> <p>https://ec.europa.eu/jrc/en/working-with-us/jobs/vacancies/function-group-iv-researchers</p> <p>Auxiliary contract staff: http://ec.europa.eu/dgs/jrc/index.cfm?id=3730</p> <p><i>Please note that due to the high number of applications received only shortlisted candidates will be contacted.</i></p>