



2017-IPR-B1-FGIV-9464

**FG IV - Scientific/ technical support officer in
Economics**

<p>Position for:</p> <p>FG IV – Scientific/ technical support officer</p>	<p>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.</p> <p>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/</p> <p>The Finance and Economy Unit supports EU policies in the domains of economics, financial markets and financial stability. Its areas of expertise include macroeconomic modelling, financial modelling and econometric analysis.</p> <p>The demand for the Unit's work is high and increasing. With an increased emphasis on key policy questions relating to macroeconomic imbalances, financial markets, EU financial integration and risk sharing within the capital markets union initiative.</p> <p>The Unit is looking for a skilled and motivated researcher, with strong quantitative skills, a solid expertise in data management and software development, and experience in data analysis, with applications in statistical and mathematical modelling preferably to finance, macroeconomics or banking (e.g. stochastic processes, network analysis, risk modelling).</p> <p>The researcher will support the work on projects aimed at analysing, among other things, bilateral financial flows between European and Global financial markets, as well as quantitative analyses in the areas of banking and macroeconomic modelling. Analyses will serve to monitor integration of EU capital markets, monitor financial stability and contribute to monitoring structural changes in European economies.</p> <p>Duties will include the development of procedures and algorithms for the execution and optimization of models and the construction and management of data-bases, e.g. automatic integration of multiple data sets, data linkage, detection of anomalies, robustness checks, as well as developing analyses of the final datasets, including data visualization and data mining.</p> <p>The researcher will be called to contribute to several strategic projects in the Unit that call for the development of dedicated computational software and the creation of datasets from multiple sources, as well as quantitative analyses. Familiarity with economic theory would allow the candidate to place the issues in the wider context of policies.</p> <p>Qualifications:</p> <p>The ideal candidate should have as <u>essential</u>:</p> <ul style="list-style-type: none">✓ Ph.D. in a quantitative field (e.g. mathematics, statistics, economics, ICT) or a minimum of 5 years of research experience after the first degree giving access to doctoral studies;✓ Very good knowledge of programming principles and
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	<p>experience in software development, programming and deployment of at least 2 years with at least one of the following: Matlab, R, C, or other standard programming or statistical packages (e.g. Julia, Python);</p> <ul style="list-style-type: none"> ✓ Background/experience of at least 2 years in developing statistical/computational modelling tools, proven by studies or research based on the use of computational and statistical methods; ✓ Experience of at least 2 years in dealing with large/mixed datasets, proven by studies or research in the field; ✓ Thorough knowledge of spoken and written English, including the ability to write technical and/or policy reports. <p><u>Personal abilities</u> such as self-motivation, team spirit, ability to be proactive and work independently are considered essential as well.</p> <p><u>Desirable:</u></p> <ul style="list-style-type: none"> ✓ Background/experience in economics or economic policy would be an asset; ✓ Experience in one or more of macro-financial modelling, network modelling and risk modelling would be an asset; ✓ Experiences in data integration and linkage, data visualization, and data mining would be an asset; ✓ Background/experience in the deployment of web-based or distributed solutions would be an asset.
<p>Directorate Unit</p>	<p>Growth and Innovation Finance and Economy</p> <p>Further information: https://ec.europa.eu/jrc/en/research-topic/financial-and-economic-analysis</p>
<p>Indicative duration</p>	<p>36 months initial contract with possible renewals up to maximum 6 years</p>
<p>JRC Site Country</p>	<p>Ispra Italy</p>
<p>Rules and eligibility</p>	<p>The candidate must be on a valid EPSO reserve list for Function Group IV contract staff.</p> <p>Applicants to the following Calls for expression of interest can also be considered:</p> <ol style="list-style-type: none"> 1. CAST Permanent - EPSO has launched in January 2017 an open-ended selection procedure to create a pool of candidates from which the institutions, bodies, offices and agencies of the European Union (EU) can recruit contract agents. Details available at the link below: https://epso.europa.eu/documents/2240_en 2. Call COM/1/2015/GFIV – Research - The JRC has launched in January 2015 a permanent call for researchers FG IV. Details available at the link below: https://ec.europa.eu/jrc/en/working-with-us/jobs/vacancies/function-group-IV-researchers

Auxiliary contract staff:

<https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/contract-staff-members>

Please note that due to the high number of applications received only shortlisted candidates will be contacted.