



2016-IPR-I-000-7424

Composite Indicators & Scoreboards: data analysis

Position for:

Trainee

Short description of activity:

The European Commission's Joint Research Centre (JRC) in Ispra, Italy, is looking for three trainees to provide support on research activities related to:

- (a) Development of COIN Explorer, a platform of composite indicators and scoreboards developed and used by the European Commission services;
- (b) Data analysis for the Cultural and Creative City Monitor;
- (c) Data analysis of large bibliometric datasets related to the monitoring of networks of scientific collaborations.

These activities will be carried out in the context of the work programme of the Competence Centre on Composite Indicators and Scoreboards (COIN) (<https://ec.europa.eu/jrc/en/coin>). COIN builds upon JRC world-renowned expertise in developing and auditing composite indicators that distil information on multidimensional concepts with a view to enhance the utility of data systems for policy analysis, policy formulation and research. COIN supports policy Directorates of the European Commission and has a portfolio of over 40 international collaborations.

The tasks include:

- compiling and analysing large datasets (Scopus, Web of Knowledge);
- data validation;
- quantitative analysis (statistical, econometric);
- literature reviews;
- contributing to scientific reports.

By the end of the traineeship period, the trainees will have obtained strong understanding of constructing and assessing composite indicators and indicator frameworks, strengthened their competences in statistical and econometric analysis, and obtained valuable experience working with an international team committed to the support of the EU policy.

Qualifications:

Essential

University degree in statistics, economics, mathematics, computer science, or related field. Good knowledge of data validation methods,

	<p>multivariate analysis (cluster analysis, principal component analysis). Good programming skills in Matlab (or other similar programming language, e.g. R, Stata, SPSS) and use of statistical analysis software. Good command of oral and written English (level B2) and ability to work in a team.</p> <p><u>Advantage</u> Experience with advanced statistical methods (big data analysis, neural networks, network analysis) and/or computer skills in Php, html would be assets.</p> <p><u>For general eligibility requirements, please read the rules governing the traineeship scheme of the JRC:</u></p> <p>https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/jrc-trainees</p>
Institute/Directorate Unit	<p>Directorate I - Competences Modelling, Indicators and Impact Evaluation Unit (I.1) Further information:</p> <p>https://ec.europa.eu/jrc/en/about/institutes-and-directorates https://ec.europa.eu/jrc/en/coin</p>
Indicative duration	5 months
Preferred starting date	As soon as possible
JRC Site	Ispra
Country	Italy
<u>JRC contact details</u>	<p>For any technical problems with your application, please contact: JRC-ESRA@ec.europa.eu</p>