



2018-IPR-I3-FGIV-010212

**FG IV – Technical Officer – IT Specialist - JRC
Big Data infrastructure**

Position for:

**FG IV –
Technical Officer**

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: <https://ec.europa.eu/jrc/>

In the Directorate for Competences, Text and Data Mining Unit aims to develop, provide access to, and apply text and (big) data mining, management and analysis. The Unit also provides: (i) guidance on the use of statistical data mining methods as well as text mining and analysis techniques for information extraction; (ii) one-stop-shop for tools, services and training for the EU institutions and strategic partners to support their needs in the fields of open sources intelligence, media monitoring, information harvesting and analysis as well as innovation monitoring, statistical data mining and visualisation; (iii) a versatile petabyte scale platform for the processing, analysis, and interactive visualisation of geospatial data and other big data sources (iv) set-up of Competence Centres in these areas as appropriate.

We offer a position for an IT specialist for big data and high performance/high throughput computing infrastructures. The successful candidate will contribute to the following activities:

- scaling-up, benchmarking, optimisation, and evolution of the infrastructure and computing environments of the JRC Big Data Platform (JEODPP) developed in the context of the EO&SS@Big Data project;
- management and extension of the petabyte-scale disk storage system deployed on the JEODPP (EOS storage service developed by CERN) and benchmarking of emerging big data storage and computing technologies;
- consolidation of the container-based virtualisation environments, including implementation of workflows to automate system tasks and integration with processing and monitoring services.

He/she will collaborate closely with the other members of the team and actively participate to the associated meetings including those held in the framework of the CERN-JRC collaboration on big data. He/she will write and maintain up-to-date documentation of all technical systems and software developed including the use of version control systems. He/she will contribute to peer-reviewed scientific papers.

Qualifications:

A completed university studies of at least three years attested by a diploma in IT or related computer science/engineering fields attested by a diploma and at

	<p>least 3 years of professional experience in IT.</p> <p>To perform the activities described above the following expertise is required:</p> <ul style="list-style-type: none"> - Sound experience in Linux system management; - Very good knowledge of shell/bash scripting; - Knowledge of network configuration and security; - Knowledge of network file systems and web service administration. <p>The following experiences and knowledge would be an asset:</p> <ul style="list-style-type: none"> - Experience in data mining with HPC environments; - Experience with distributed file systems and/or big data infrastructures; - Usage of the Docker container environment; - Knowledge of Python programming language. <p>A very good working knowledge of English (B2 level) is required. Furthermore, the capability of working in an international/multicultural environment is required.</p>
Directorate Unit	<p>Competences Text and Data Mining</p> <p>Further information: https://ec.europa.eu/jrc/</p>
Indicative duration	<p>12 months initial contract with possible renewals up to maximum 6 years</p>
JRC Site Country	<p>Ispira Italy</p>
Rules and eligibility	<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 <p>Auxiliary contract staff: https://ec.europa.eu/jrc/en/working-with-us/jobs/temporary-positions/contract-staff-members</p> <p>Article 3b of the Conditions of Employment of Other Servants of the European Union applies: the actual period of employment within the Commission under this type of contract, including any period under renewal, shall not exceed 6 years.</p>

	<p><i>Please note that due to the high number of applications received only shortlisted candidates will be contacted.</i></p>
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