



EUROPEAN COMMISSION

JOINT RESEARCH CENTRE

**2021-IPR-I3-FGIV-016368**

**FG IV - TECHNICAL OFFICER - SOFTWARE SOLUTIONS IN THE FIELD OF AUTOMATIC MULTILINGUAL TEXT ANALYSIS / MEDIA MONITORING**

**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:**

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/>

The vacancy is within Directorate for Competences, Text and Data Mining Unit aiming 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) set-up of Competence Centres in these areas as appropriate.

**WE PROPOSE:**

The JRC offers a vacancy for a Contract Agent within the Europe Media Monitor Project (EMM) providing a technology to monitor a large set of publicly available electronic media, reducing the information flow to manageable proportions by clustering related news, categorising articles and finally applying Language Technology tools to derive further metadata. Interactive tools allow media analysts and policy officers to easily and effectively explore results.

The successful candidate will contribute to the enrichment of the various text mining tools developed within the EMM project by applying R&D to automated text analysis and to the visualisation of complex data, predominantly related to media monitoring and analysis.

The selected candidate will carry out the following tasks:

- Support the EMM team in assessing and re-designing the system architecture underlining the front-end visualization tools.
- Design and develop new visualization tools according to the new business requirements and state-of-the art web technologies.
- Support the EMM team in enhancing/maintaining the existing tools and until they are migrated to the new architecture or completely phased out.
- Support the EMM team in the activities related to the EMM Communities including dissemination of results, training resources preparation, participation to expert user groups.
- Dissemination of research results by contributing to scientific publications.

**WE LOOK FOR:**

Qualifications/Skills:

- MSc and/or PhD in Computer Science, Artificial Intelligence, Computational Linguistics, Software Engineering, Statistics or related areas.
- Multiannual experience in Computing Science, Software Engineering or related areas.
- Demonstrated skills in software architecture design and software development including

distributed/redundant/highly available systems.

- Extensive programming knowledge of Java, J2EE and good knowledge of DBMS and Elasticsearch technologies.
- Very good knowledge and proven experience in Web technologies (HTML5, CSS, JavaScript, Angular, HTTP/DDP/REST).
- Demonstrated experience in all software engineering processes: Analysis, Design, Coding, Testing, Maintenance.
- Very good knowledge of English (B2 level).
- Good communication skills and experience in writing technical documentation.

It would be an asset to have:

- Good knowledge of Python programming including NLP and data visualization frameworks.
- Experience in designing applying innovative Text Mining solutions to real-life use cases.
- Proven publication track in peer-reviewed scientific conferences and journals.
- Active or passive knowledge of several languages in order to work with multilingual data.
- Experience of working in a multilingual environment.

**INDICATIVE CONTRACT'S DURATION:**

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

**PLACE OF WORK:**

Ispira (IT)

**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](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.