2022-IPR-I3-FGIV-020869 | FG IV - Project Officer - Scientific Research in automatic multilingual text processing / media monitoring and analysis

**POSITION FOR:** Member of the contract staff FG IV – art. 3b of the Conditions of Employment of Other Servants


**WE ARE:**
As the science and knowledge service of the Commission, the mission of DG Joint Research Centre (JRC) 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/](https://ec.europa.eu/jrc/)

The current vacancy is in the Directorate for Competences of the JRC, specifically in the Text and Data Mining Unit.

The 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) set-up of Competence Centres in these areas as appropriate.

**WE PROPOSE:**
A position as contract agent who will join the Text Mining and Analysis Competence Centre, working on large scale media monitoring, disinformation, stance detection, and on pulling useful information for policy from large amount of text. The team is based in Ispra, Italy.

The team are working in many complementary areas and, according to his/her expertise, the selected candidate will provide scientific and technical support in some of the following areas:

- document classification, geolocation, entity extraction, quotes extraction, near-duplicate detection, automated keywords extraction and expansion, (multi-)document summarization.
- Sentiment, emotion, stance.
- Event detection and classification, event extraction/relation extraction, event linking.
- Topic mining, argument mining, document clustering, multi-modal linking, knowledge graphs.

Main tasks will include:

- Research on natural language processing for the enhancement of our large-scale multilingual online news and social media analysis engines.
- Develop methods, resources, components and applications based on the results of the research above.
- Publish results of this research in peer-reviewed scientific conferences and journals.
- Provide advice on text mining and natural language processing.

**WE LOOK FOR:**
Candidate will have education and/or experience in disciplines linked to text mining and computational linguistics. More specifically:

- (i) a relevant PhD, or (ii) relevant professional experience of at least three years after having completed MSc studies in Computer Science, Computational Linguistics, Information and Communication Technologies or related areas.
- Extensive knowledge of natural language processing.
- Demonstrated research experience in the field of information retrieval and extraction, including publications in international peer-reviewed journals and/or conferences.
- Good knowledge of English (B2 level)
- Good communication skills.
- Hands-on programming experience.

It would be an asset to have:
- Demonstrated experience in design and development of general-purpose Natural Language Processing, Information Extraction and Web Mining core components like tokenizers, morphological analysers, named-entity recognition, name lemmatisation, geotagging, syntactic parsers, term extraction, web crawlers, web scrapers, data compression, pattern learning, etc.
- Demonstrated skills in design and development of NLP tools, methods and applications in Java or Python.
- Familiarity with some state-of-the-art machine learning toolkits, NLP toolkits and related linguistic resources.
- Acquaintance with neural networks and deep learning methods.
- 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:**
Ispra (IT)

**ELIGIBILITY CRITERIA:**
Candidates for this contract agent post shall:
- (i) have passed a valid EPSO CAST selection procedure;

With a valid application number to one of the above, you may then apply for this specific vacancy at JRC through: [http://recruitment.jrc.ec.europa.eu/?type=AX](http://recruitment.jrc.ec.europa.eu/?type=AX).

**RECRUITMENT POLICY:**
The Joint Research Centre
- 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.