



2022-IPR-I3-FGIV-020368

**FG IV – Project Officer – Scientific Research in  
Natural Language Processing**

**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 (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/>

**The current vacancy is in the Text and Data Mining unit of the JRC.**

EMM is the Europe Media Monitor, a system for monitoring publicly available news online. It monitors almost 12.000 news sites to find articles published on the Internet (320.000 articles daily). Automated text analysis is then applied to these articles and the result is made available to Policy Makers as a highly valuable information source.

The Text Mining & Analysis Competence Centre (TMACC) is an in-house consultancy and innovation service supporting EU Institution's Policy Makers, Investigators and Analysts in their knowledge-intensive tasks by providing consultancy and advanced analytical tools in the field of text mining.

**WE PROPOSE:**

We offer a position for a research fellow in Machine Learning and Deep Learning for Text Analytics between the EMM and TMACC projects to explore original methodologies and techniques for automation of searching and extraction of structured information from massive text collections.

The successful candidate will contribute to the enrichment of the various text mining tools developed by the Unit for processing vast amounts of textual data, including legal acts, investigation material, news and social media postings, by exploration and integration of machine learning-based methods to automate the process of adaptation of the aforementioned tools to processing texts in new domains and languages and whenever possible through exploiting user feedback.

The candidate will carry out research in at least one of the following areas:

1. Multilingual Named Entity Recognition and acronym resolution.
2. Machine learning-based methods for text classification, terminology extraction, text clustering, and text similarity computation.

The successful candidate will also carry out the following tasks:

- Development of software components based on the results of the research above and integrate them in existing text mining toolkits and applications,
- Publish research results in peer-reviewed scientific conferences and journals,
- Provide advice to internal and external stakeholders on state-of-the-art methods and results in this specific area.

**WE LOOK FOR:**

The ideal candidate should have:

- a PhD in Computer Science, Artificial Intelligence, Computational Linguistics, Statistics or related areas, and at least three years of postgraduate experience or an MSc in the above areas and at least five years of postgraduate experience,

- Proven publication track in peer-reviewed scientific conferences and journals,
- Experience in development and design of Named Entity Recognition solutions,
- Very good knowledge of English (B2 level),
- Good communication skills,
- Hands-on programming experience,
- Hands-on experience with some state-of-the-art machine learning toolkits, in particular, in the context of elaborating solutions for Natural Language Processing based highly multilingual text transformers.

It would be an asset to have:

- Demonstrated skills in development of tools and applications that exploit machine learning-based solutions in Python or Java,
- Hands-on working experience in the context of analysis of user behaviour patterns and logs,
- 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:**

Ispira (IT)

**ELIGIBILITY CRITERIA:**

Candidates for this contract agent post shall:

– (i) have passed a valid EPSO CAST selection procedure;

or

– (ii) be registered in the EPSO Permanent CAST [https://epso.europa.eu/documents/2240\\_en](https://epso.europa.eu/documents/2240_en)

or

- (iii) be registered in the specialised call for researchers <https://ec.europa.eu/jrc/en/working-with-us/jobs/vacancies/function-group-iv-researchers> (used mainly by the JRC).

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>.

**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.