EUROPEAN COMMISSION

JOINT RESEARCH CENTRE

2023-IPR-F7-FGIV-022288 **FG IV – Scientist Project Officer – Interpretable Machine Learning in Digital Health**

POSITION FOR:
Member of the contract staff 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 on the JRC website .
The current vacancy is in the Knowledge for Health and Consumer Safety Unit, within the Directorate for Health, Consumers and Reference Materials.
The Unit supports EU policies on consumers, food safety and health by mapping, collating, analysing, quality checking and communicating in a systematic and comprehensible way all the relevant scientific data, methods, tools and knowledge available worldwide in their policy area.

WE PROPOSE:
Unit JRC.F7 is looking for a Senior Data Scientist to work on interpretable machine learning applied to health data, including genomics, medical image analysis, clinical and graphs datasets.
During this contract, the successful candidate will work with a variety of techniques such as convolutional and recurrent networks, transformers and graph neural networks to create models that generate insights and can be used at scale in the European Commission.
The successful candidate will work in a multidisciplinary setting of JRC staff and external collaborators. The position offers and excellent opportunity to acquire experience in working with complex data (clinical, genomics, imaging etc.) on interesting research topics, helping to improve health in the EU through high impact research.

WE LOOK FOR:
A scientist with the following essential qualifications:

- A doctoral diploma (PhD) in Computer Science, Engineering, Physics, Applied Mathematics or a related field, alternatively completed university studies of at least three years attested by a diploma and at least 3 years of professional experience in a field relevant to the position.
- Strong quantitative background with experience in machine learning, neural networks and deep learning.
- Proficiency in Python and deep learning frameworks (pytorch, tensorflow, etc..).
- Excellent written and spoken English (C1).
- Ability to work autonomously, and as part of a team.
- Ability to communicate scientific concepts in writing or orally.

Preferred qualifications:

- Good research track record.
- Experience with Transformers, Graph Neural Networks or Reinforcement Learning
- Experience with parallel training of deep learning models on multi-GPUs systems.
- Experience with machine learning interpretability and data visualization
- Demonstrated ability in the management of large health data sets, including data retrieval, transformations and analysis with python or R.
- Work in international research teams and multidisciplinary fields.

Interested candidates should provide a CV. In the list of publications accompanying the CV, please highlight the five most relevant publications.

INDICATIVE CONTRACT DURATION:
36 months employment 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;
or
– (ii) be registered in the EPSO Permanent CAST
or
– (iii) be registered in the Specialised Call for 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 its vacancy page.

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.