



VACANCY NOTICE – 2023-IPR-S4001-FGIV-022705

FG IV Scientist - Exploratory Research Project

INTelligence for AGRiculture Supply Chain (INT4AGRI)

Type of contract	Member of the European Commission's contract staff, Function Group IV (article 3b of the Conditions of Employment of Other Servants)
Duration of contract	36 months employment contract for the Exploratory Research Project INTelligence for AGRiculture Supply Chain (INT4AGRI). Employment contracts for this type of staff can be renewed up to maximum 6 years.
Area	Agriculture
Place of employment	Ispra (IT)
Indicative basic salary	3877,47 - 5616,29 € (applicable as of 1 st of July 2022) For more detailed information please consult: Working Conditions

WE ARE

The [Joint Research Centre \(JRC\)](#) provides independent, evidence-based knowledge and science, supporting EU policies to positively impact society.

The current vacancy is in the Food Security Unit of the Directorate for Sustainable Resources of the JRC.

Its mission is to play a central role in creating, managing and making sense of scientific knowledge for EU policies related to the sustainable use of resources, encompassing environmental, economic and social dimensions. The Directorate focuses on land, soil, forests, water, marine resources, raw materials, biodiversity and related ecosystem services and supports the development of a sustainable bio-economy. It monitors and analyses agriculture and food production, consumption and trade, including the macro- and micro-economic aspects, their impact on food security, public goods and the environment. It highlights the threats to our existing resources and explores alternatives and futures perspectives using advanced biophysical and economic analyses, including geospatial technologies, modelling and supply-chain analyses.

The Scientific Development Programmes Unit is in charge of the overall JRC Exploratory Research Programme.

The vacancy is within the **Exploratory Research Project INTelligence for AGRiculture Supply Chain (INT4AGRI)**. The JRC Exploratory Research Programme is a strategic initiative characterised by ideas that might lead to novel results and qualitatively enrich current JRC scientific work.

We offer:



A challenging and rewarding research position to carry out scientific tasks in accordance with the Exploratory Research Project INTelligence for AGRiculture Supply Chain (INT4AGRI). The focus will be on developing a supply chain model that integrates Earth Observation data on agricultural production and information on infrastructures and storage facilities in the context of the current Ukraine crisis. Model simulations under various scenarios will help to identify vulnerabilities and risks in the agriculture supply chain under different scenarios.

WE PROPOSE

The successful candidate will join a dynamic team of JRC researchers working in the intersection of agricultural modelling and remote sensing along with high-level international collaborations. S/he will:

- Identify, collect and integrate relevant data sets used in agricultural supply chain logistics;
- Identify common practices and drivers in Ukrainian agricultural supply chain logistics;
- Develop a modelling approach to run simulations of the agricultural supply chain logistics;
- Analyse simulation results for normal and stressed scenarios;
- Benchmark results against real world scenarios in, at least, the Ukraine war context;
- Extrapolate results to other crisis scenarios and define pilot tests for those;
- Produce scientific publications documenting research findings and potential policy implications and document the R&D work in FAIR data sets and in open source code repositories.

WE LOOK FOR

A highly motivated scientist with the following essential qualifications:

- A doctoral diploma in agronomy, agricultural engineering, operation research or applied mathematics; alternatively completed university studies of at least three years attested by a diploma and at least five years professional experience in agricultural supply chain logistics;
- Extensive knowledge/experience in modelling and simulation of agricultural logistics and related data analysis skills;
- Affinity with or experience in the agricultural crop production sector;
- Open data science and programming skills (e.g. Python);
- Good oral and written communication skills in English (B2).

In addition, the following competences will be considered as an advantage:

- Ability to work in a team and in a multi-cultural environment;
- Ukrainian language communication skills to interact with data and stakeholders;
- Solid record of research activities relevant for the post including publications in international peer-reviewed journals, open data and open source code.

The candidate is expected to be creative and work independently.

HOW TO APPLY

If you are **already on a valid CAST FG IV reserve list**, or you **have already applied to one of the calls below**, you can directly submit your application at <http://recruitment.jrc.ec.europa.eu/?type=AX>.



Interested candidates should provide a CV and cover letter explaining their motivation and aptitude for the vacancy and the described research areas and tasks. In the list of publications accompanying the CV, please highlight your five most relevant publications.

If not, before applying to this position, **you must register** for one of the two following:

- the [Call for Expressions of Interest | EU Careers \(europa.eu\)](#) (CAST Permanent FG IV), which is used by a wide range of organisations (institutions, bodies, offices and agencies of the European Union), or
- the [specialised call for researchers](#) (JRC Call COM/1/2015/GFIV – Research), which is mainly used by the JRC.

Note that each of the calls above has **different minimum eligibility requirements and different selection tests**.

The JRC cultivates a workplace based on respect for other people and the environment, and embraces non-discriminatory practices and equality of opportunity. In case of equal merit, preference will be given to the gender in minority.