



2022-IPR-A5002-FGIV-021889

**FGIV - Project Officer - Infectious Disease Modelling
Epidemics: Dynamics and Control**

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 current vacancy is in the Directorate for Strategy, Work Programme and Resources. With the JRC Strategy 2030, the JRC reinforces its commitment to scientific excellence. The creation of the Scientific Development Unit (SDU) is one of the instruments to underpin this strategy by developing and managing thematically crosscutting and multi-disciplinary programmes. As part of the JRC's strategic scientific development, the Directorate has established and manages the **Centre for Advanced Studies (CAS)**. Further information: <https://ec.europa.eu/jrc/en/research/centre-advanced-studies>

The JRC is **now looking for Infectious Disease Modeller to work on the CAS project 'Epidemics: Dynamics and Control'**, on the dynamics and control of infectious diseases'. CAS provides an interdisciplinary and stimulating space where JRC scientists are encouraged to think beyond the conventional, look forward towards cutting-edge technology hand-in-hand with scientific excellence.

The project focusses on the dynamics and control of vector-borne and respiratory infectious diseases. The aim of the project is to develop a framework based on mathematical and statistical methods and on data derived from diverse relevant surveillance systems. The project explores aspects of early warning, seasonality, waning immunity, the immunoepidemiology of the disease and the assessment of pharmaceutical interventions that may inform the public health decision process.

WE PROPOSE:

A challenging position as **Infectious Disease Modeller** within the Scientific Development Unit.

The Infectious Disease Modeller will work in a multidisciplinary research team of 4 scientists, including an Infectious Disease Epidemiologist, a Computational Statistician and a Biostatistician.

Furthermore, he/she will also collaborate closely with JRC staff in different units as well as external specialists.

In particular, he/she will

- Conduct research on dynamical systems and their application in infectious disease epidemiology;
- Contribute to the dissemination of research outputs through scientific conferences and peer reviewed journals.

WE LOOK FOR:

The ideal candidate will have:

- Completed university studies of at least three years attested by a diploma and at least five years of professional experience in a field relevant to the position, alternatively a doctoral degree (PhD) in Applied Mathematics, Physics, Computer Science, Mathematical Epidemiology or other relevant disciplines.
- Strong quantitative background with robust mathematical skills with emphasis on dynamical systems.
- Strong theoretical background in dynamical systems and complex systems.

- Proficiency in Python, R or Matlab (at least two).

The working language will be English and a good knowledge of oral and written English (B2 level), communication and presentation skills are necessary.

It will be considered as an asset:

- A good research record.
- Knowledge and use of methods on operations research or spatial statistics.
- Modelling in infectious disease epidemiology
- Work in international research teams and multi-disciplinary fields.

Interested candidates should provide a CV and cover letter. In the list of publications accompanying the CV, please highlight the five most relevant publications. Two contact points for references will also be needed.

INDICATIVE CONTRACT'S DURATION:

24 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;

or

– (ii) be registered in the EPSO Permanent CAST <https://epso.europa.eu/en/documents/call-expressions-interest-0>

or

– (iii) be registered in the specialised call for researchers https://joint-research-centre.ec.europa.eu/working-us/jobs-jrc/temporary-positions/contract-staff-members/function-group-iv/job-opportunities-research-fellows-european-commission_en (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 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.