

# Job Title: Internal Research Fellow (PostDoc) on EO Agriculture

Req ID 8101 - Posted 25/10/2018



## EUROPEAN SPACE AGENCY

Research Fellowship Opportunity in the Directorate of Earth Observation Programmes.

ESA is an equal opportunity employer, committed to achieving diversity within the workforce and creating an inclusive working environment. Applications from women are encouraged.

### Post

#### Internal Research Fellow (PostDoc) on EO Agriculture

This post is classified F2.

### Location

ESRIN, Frascati, Italy

### Our team and mission

The postholder will report to the Head of the Applications Section in the Data Applications Division within the Science, Applications and Climate Department of the Directorate of Earth Observation Programmes. In the execution of the tasks, the postholder will work in close cooperation with other staff of the Directorate of Earth Observation Programmes.

The Data Applications Division is a dynamic team leading research and innovation activities, in partnership with European and international industry and academia, aiming at advancing science, developing novel applications, supporting industry growth and contributing to establish an European ecosystem of exploitation platforms to maximize the impact of European missions in society.

In the coming year activities in the area of applications will focus particularly on exploitation of data from the existing Sentinel missions as well as the preparation of the Copernicus evolution.

Interested candidates are encouraged to visit the ESA website: [www.esa.int](http://www.esa.int)

### Field(s) of activities/research

The successful candidate will, in this context, conduct research in the following domains:

- Develop and demonstrate algorithms based on Sentinel -2 and -1 observations for agricultural monitoring, in particular for yield estimation and agricultural practices;
- Participate in the development of products and applications related to EO for agriculture, e.g. for the upcoming Common Agriculture Policy.
- Support the consolidation of mission requirements for crop monitoring in the frame of the preparation for the Copernicus candidate mission LSTM (Land Surface Temperature Monitoring);

In addition the candidate will also:

- Liaise with project teams and end-users of relevant ESA R&D projects;
- Contribute as appropriate to preparation of training materials, training events, and stakeholders consultation workshops,
- Publish results in relevant scientific journals and present at relevant ESA conferences and workshops.

## Technical competencies

Knowledge relevant to the field of research

Research/publication record

Ability to conduct research autonomously

## Behavioural competencies

Innovation & Creativity

Communication

Self Motivation

Problem Solving

## Education

Applicants must have completed their PhD (or equivalent) studies in Physics, Engineering or Earth Science with research experience and peer-reviewed publications in relevant topics for the fields of research proposed.

## Additional requirements

Experience with computing programming and relevant off-the-shelf EO image processing tools, EO Platforms (e.g. DIAS) and software will be an asset.

The position requires also state-of-art knowledge on analysis and processing methods for data from missions such as Sentinel-2 and some knowledge of Sentinel-1.

Applicants should have good analytical and communication skills and should be able to work autonomously in a multicultural team environment.

The working languages of the Agency are English and French. A good knowledge of one of these is required.

Knowledge of another Member State language would be an asset.

## Other information

For behavioural competencies expected from ESA staff in general, please refer to the [ESA Competency Framework](#).

The Agency may require applicants to undergo selection tests.

## The closing date for applications is 30 November 2018.

In addition to your CV and your motivation letter, please add your proposal of no more than 5 pages outlining your proposed research in the "additional documents" field of the "application information" section. Candidates are asked to arrange for 3 reference letters, to be sent by the referees themselves, before the closing date to [temp.htr@esa.int](mailto:temp.htr@esa.int). Please ensure your name is mentioned in the subject of the e-mail.

If you require support with your application due to a disability, please email [contact.human.resources@esa.int](mailto:contact.human.resources@esa.int).

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Please note that applications are only considered from nationals of one of the following States: Austria, Belgium, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Switzerland, the United Kingdom and Canada and Slovenia as well as Bulgaria, Cyprus, Latvia, Lithuania, Slovakia as European Cooperating States (ECS).

Priority will first be given to candidates from under-represented Member States.

In accordance with the European Space Agency's security procedures and as part of the selection process, successful candidates will be required to undergo basic screening before appointment