

Job Title: Internal Research Fellow (PostDoc) for Ocean Colour and Carbon Cycle Science

Req ID 8361 - Posted 15/10/2018



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) for Ocean Colour and Carbon Cycle Science

This post is classified F2.

Location

ESRIN, Frascati, Italy

Our team and mission

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

The Applications Division is a dynamic R&D team leading research and development 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.

Interested candidates are encouraged to visit the ESA website: www.esa.int

Field(s) of activities/research

ESA, together with the scientific community, is actively engaged in a number of scientific developments in the domain of ocean colour, ocean biology and ocean carbon cycle research aiming at:

- Developing innovative methods, algorithms and products to improve our capacity to observe and monitor ocean carbon cycle;
- Enhance our knowledge of the global ocean biology and marine ecosystems;
- Advancing our capacity to better characterise CO₂ fluxes and air-sea interactions;
- Exploring innovative methods to estimate the different components of the ocean carbonate system and monitor acidification from space;
- Improving our knowledge of the ocean carbon cycle and its biochemical, physical and ocean circulation components.

The advent of the sentinel missions, its synergies with the Earth Explorers (e.g., SMOS) and other data (including in-situ) as well as the exploitation of the long-term EO data archives open new frontiers for science and research in the domain of ocean colour, marine ecosystems and carbon cycle research.

In this context, the candidate will be involved in three main activities:

1. Support the scientific development, definition and technical supervision of science projects, carried out by external teams of experts and scientists, addressing mainly EO for ocean colour, ocean biology and ecosystem research, CO₂ fluxes and sea-air interactions, acidification and ocean carbon cycle science.
2. Support the ESA interface and dialogue with the relevant scientific communities, including international science groups such as SOLAS, IMBER, IOCCG, etc...
3. Carry out a dedicated research focusing on the scientific exploitation of European and other EO missions with special focus on fostering new methods, algorithm, products and innovative science results with special focus on the ocean carbon cycle and its physical and biochemistry components.

Technical competencies

Knowledge relevant to the field of research

Research/publication record

Ability to conduct research autonomously

Breadth of exposure coming from past and/or current research/activities

General interest in space and space research

Ability to gather and share relevant information

Behavioural competencies

Innovation & Creativity

Continuous Learning

Communication

Relationship Management

Self Motivation

Problem Solving

Cross-Cultural Sensitivity

Education

Applicants must have completed their PhD (or equivalent) studies in Oceanography, 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 will be an asset.

Applicants should have good analytical and communication skills and should be able to work in a multi-cultural environment in an autonomous manner.

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.

Preference will be given to applications submitted by candidates within five years of receiving their PhD.

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 12 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. 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.

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