



# Join our team.

TECHNICAL OFFICER/SOFTWARE ENGINEER

We are seeking a creative self-starter who will proactively tackle challenges, and propose innovative solutions to support and advance delivery and uptake of climate modelling science, helping the world to better understand, and act on climate change.

If you are skilled in language such as Python, C, or Fortran and have experience in software development and version control systems, are used to using Github to enhance visibility, collaboration and management of your work, are willing to learn about, and evolve, the CMIP distributed infrastructure and are looking for a new challenge, we'd love to hear from you.

## The role.

You'll be a member of a small, dedicated cross-functional, agile team, working directly with leading climate modelling and data scientists on the World Climate Research Programme (WCRP) CMIP and Working Group on Coupled Modelling (WGCM) Infrastructure Panels, supporting and developing the distributed infrastructure behind CMIP including model documentation, collecting and specifying community data requirements, and the development and management of tools for preparing outputs compliant with these data standards.

A key part of the role will be to engage with scientific and downstream users to identify user requirements and devise and implement new features with associated tests and to ensure that CMIP remains current and at the forefront of interoperability and use, where appropriate, state-of-the-art development platforms, tools and techniques.

The CMIP International Project Office is hosted by the European Space Agency. The team is contracted and managed by HE Space. HE Space is offering a competitive salary. Applications remain open until the post is filled.

November 2022



# CMIP IPO Technical Officer/Software Engineer

## 1.1 Context

The primary objective of the World Climate Research Programme (WCRP) Coupled Model Intercomparison Project (CMIP) is to better understand past, present, and future climate changes arising from natural, unforced variability or in response to changes in forcing in a multi-model context. CMIP provides the focal point for leading national and international entities in climate modelling and is the main resource for the Intergovernmental Panel on Climate Change (IPCC) assessment of climate projections. CMIP activities are overseen and coordinated by two subcommittees of WCRP Working Group on Coupled Modelling (WGCM): the CMIP Panel and the WGCM Infrastructure Panel (WIP).

As the CMIP initiative has evolved, each phase has included more experiments with ever more complex models and exponential growth in data volumes. This has all occurred while remaining a voluntary effort carried out and coordinated by the climate modelling community itself and those within the WCRP secretariat. To respond to this increased demand and the size and complexity of CMIP, the CMIP International Project Office (CMIP IPO) was established in March 2022, hosted by the European Space Agency at their UK site in Harwell, Oxfordshire.

An important goal of CMIP is to make the multi-model output, and additional supporting observational products, publicly available in a standardized format to allow a large and growing stakeholder community to utilise the broad CMIP database and facilitate downstream use. To support this goal the CMIP IPO is looking to recruit an experienced Technical Officer. You will report to the CMIP IPO Director, under the governance of the WIP and the CMIP Panel.

## 1.2 Key Tasks and Responsibilities

As CMIP IPO Technical Officer/Software Engineer you will have the following responsibilities:

- Facilitating the connections and assisting in the support and development of the distributed infrastructure behind CMIP including model documentation, collecting and specifying community data requirements, and the development and management of tools for preparing outputs compliant with these data standards.
- Managing and maintaining Control Vocabularies, variable definitions and workflows around them.
- Making connections and reaching out to the wider climate communities.
- Responding to technical queries around protocols and structures.
- Reaching out to relevant wider communities such as PANGEO, Copernicus, and other emerging communities.

### 1.3 Skills & Experience

You will have the following qualifications and relevant experience:

- At least five years of relevant work experience.
- A minimum of a MSc level qualification or equivalent experience.
- Experience of software engineering practices and languages such as Python, C or Fortran, Github and version control systems.
- Adept at working remotely within geographically disparate teams.
- Expertise in working in an international environment.
- Proficiency in English.

The following would also be desirable:

- Experience of project management in a software or scientific environment
- Experience working with climate models and climate data.

### 1.4 Location

The CMIP IPO office is hosted by the European Space Agency's Climate Office. It is located at the ESA European Centre for Satellite Applications Technologies (ECSAT) in Harwell with flexible home working options within the UK available. Applications will remain open until the position is filled.

### 1.5 Employment structure

CMIP IPO is hosted by the European Space Agency. The team is contracted and managed for ESA by HE Space. HE Space is offering a competitive salary

HE Space is a successful international space company. For 40 years, HE Space has been supporting their customers with qualified experts in the field of engineering, science and administration.

### 1.6 Application

To apply, please send your CV together with a letter of motivation (in English and in Word) to Leandros Foteinias (HE Space Recruitment Manager) [lfoteinias@hespace.com](mailto:lfoteinias@hespace.com) by clicking the "Apply now" button on the webpage: <https://www.hespace.com/vacancies/cmip-ipo-technical-officer-software-engineer>, quoting job UK-HP-4896.

We are seeking to fill this post as soon as possible. Applications will remain open until the position is filled. An exciting and dynamic international working environment awaits you!