



2 Postdoctoral Fellowships in Attribution and Projections of Regional Climate and Extremes



and

2 Postdoctoral Fellowships in ML regional climate model emulator over the worldwide CORDEX domains



ICTP's Earth System Physics section (ESP, <https://www.ictp.it/research/esp.aspx>) seeks applications for **Postdoctoral Fellowships from highly motivated scientists with multiple interests and skills and a strong research record** for a two years period, renewable for an additional third year subject to performance, starting as soon as possible in 2026, ideally not later than beginning of October 2026.

Two postdoctoral positions will be under the framework of the HORIZON project no.101293581 **CLOSER (Close the LOop: Attributing complex climate disaStERs to climatic and to policy changes)** and will work to develop and use an attribution protocol based on observation, reanalysis and real time forecast system, together with high resolution regional climate projections.

Specific requirements for these position are:

- Expertise in extreme events climate attribution
- Expertise in high resolution regional climate modelling
- Strong background in Fortran, PYTHON, Programming languages
- Ability to work with parallel codes on an HPC-MPI platform

Two postdoctoral positions will be under the framework of the **COPERNICUS C3S project (Downscaling of CMIP6 Climate Projections using Machine Learning Tools to fill the Gaps of the Worldwide CORDEX RCM Simulations)** to implement a machine learning regional climate emulator to be able to complement the dynamical downscaling methods for high resolution climate projections.

Specific requirements for these position are:

- Expertise in ML (with a focus on DL) theory and application for climate science
- Strong background in PYTHON Programming Language and Pytorch or Tensorflow libraries
- Ability to build distributed ML pipelines on HPC infrastructures

Candidates must have completed a PhD in Atmospheric Physics and Climate sciences, geophysical science, data science or related disciplines prior to the start of their fellowship and have experience in the research areas mentioned above.

ICTP offers internationally competitive remuneration and a number of benefits in a vibrant international research environment with an intense programme of workshops and conferences. Postdoctoral fellows are also encouraged, and supported, to participate in activities in developing countries in order to promote the mission of ICTP. The ICTP takes seriously its commitment to equal opportunity and diversity in hiring, and in its global mission to promote science in the developing world.

The appointment will be initially made for 2 years and should start no later than October 2026.

Apply here,

<https://e-applications.ictp.it/applicant/login/4327>

Application deadline: 18 July 2026 Please note that only short-listed candidates will be contacted by e-mail after the selection process (mid -August).

For more information please contact: Dr. Erika Coppola (coppolae@ictp.it) or ESP administration (esp@ictp.it).