



The Abdus Salam
**International Centre
for Theoretical Physics**



Environmental monitoring with Internet of Things and LPWAN

Postdoctoral fellowship starting Fall 2025

WELLCOME TRUST (U.K.) ACCLIMATISE: Attribution of a Changing CLIMate in the AssessmenT of malaria Intervention Strategy Efficiency

The Science, Technology and Innovation (STI) Unit of the Abdus Salam International Centre for Theoretical Physics (ICTP) seeks applications for a postdoctoral position for an initial period of two years, renewable for an additional year subject to performance, from an outstanding early career scientist with a strong research record of accomplishment. Start date is between September and October 2025.

This post-doctoral position is linked to the **WELLCOME TRUST (U.K.) ACCLIMATISE: Attribution of a Changing CLIMate in the AssessmenT of malaria Intervention Strategy Efficiency (2025-2028)**, with **Dr. Adrian Tompkins as Principal Investigator** at ICTP. ACCLIMATISE aims to integrate climate information into the assessment of malaria interventions for three countries in Africa and includes the implementation of high resolution monitoring networks in two cities in Senegal. The project consists of a consortium of 8 institutions, based in Africa, Europe and the USA and will interact with health ministry representatives in 3 countries. The selected candidate will be joining an exciting international project that aims to bring its research to operational application in Senegal, Kenya and Ethiopia.

The selected postdoctoral researcher is expected to carry out active, independent and multidisciplinary research in the area of Environmental monitoring with Internet of Things and LPWAN, with a particular focus on the design, deployment and evaluation of low-cost weather stations.

Candidates should have a background in some of the following disciplines:

- Internet of Things, LPWAN communications, EdgeAI.

Following skills will be preferred:

- Ability to collaborate in an interdisciplinary environment;
- Strong analytical skills;
- Good spoken and written English is essential, and ability to converse in French would be an advantage;
- Independence and critical thinking.

This position is in the Science, Technology and Innovation (STI) Unit in the broad areas of Internet of Things and EdgeAI solutions for scientific applications. It involves joining a highly motivated, international and interdisciplinary team, collaborating with international partners of the utmost calibre and reputation in an exciting and dynamic project in which travel to Africa is expected. ICTP provides 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.

Applicants must have completed a PhD in physics, computer science or engineering prior to the start of this post-doctoral position. Priority consideration, at equal competence in the aforementioned research areas, will be given to candidates who obtained their PhD after 2022.

ICTP offers competitive remuneration and a number of benefits. Appointment will ideally start in September 2025 . Candidates should apply through the ICTP online application system (see link below).

For further information please contact: Dr. Marco Zennaro (mzennaro@ictp.it)

Application deadline: 25 August 2025. Please note that only short-listed candidates will be contacted by e-mail after the selection process (end-August 2025).

- Contact emails: sti@ictp.it; mzennaro@ictp.it
- Application: <https://e-applications.ictp.it/applicant/login/4182>