

ASSOCIATE RESEARCH SCIENTIST

Post Number : 1ITSC0894TP

Grade : P-2

Parent Sector : Natural Sciences Sector (SC)

Duty Station: Trieste

Job Family: Natural Sciences

Type of contract : Fixed Term

Duration of contract : 2 years

Recruitment open to : Internal and external candidates

Application Deadline (Midnight Paris Time) : 21-MAR-2024 (EXTENDED)

UNESCO Core Values: Commitment to the Organization, Integrity, Respect for Diversity, Professionalism

OVERVIEW OF THE FUNCTIONS OF THE POST

Founded in 1964 by the late Nobel Laureate Abdus Salam and located in Trieste (Italy), the Abdus Salam International Centre for Theoretical Physics (ICTP) seeks to accomplish its mandate by providing scientists from developing countries with the continuing education and skills that they need to enjoy long and productive careers.

Under direct supervision of the Earth System Section Head the incumbent is expected to develop, maintain, disseminate, and use advanced computer software for scientific applications, with particular emphasis on the development and continuous upgrade of numerical models applied to climate research, along with related pre/post-processing and analysis tools. Furthermore he/she is expected to actively take part in all activities of the ESP section and also to contribute to all ICTP activities in the field of scientific computing, in particular schools, workshops and conferences organized both at ICTP and abroad, as well as to the ICTP postgraduate programs.

Essential responsibilities include:

- Developing advanced computing softwares for application to climate modelling and continuously upgrade and optimize the ESP model codes and pre and post processors.
- Carrying out numerical simulations with the ESP models and analyse the output produced by the ESP research work using advanced analysis tools.
- Managing large datasets, both from observations and model simulations, produced by the ESP scientific activities.
- Porting and Optimizing the ESP model codes, when required, to different computing architectures, including computing frameworks in developing countries, and to provide consulting support to the users of the ESP models and datasets.
- Contributing to the ICTP training activities, including schools, workshops and conferences at ICTP and abroad, in particular when these involve hands-on sessions on the use of the ESP models and datasets.
- Supervising students, post-docs and visitors in the field of scientific computing and to lecture in the Masters Programme in High-Performance Computing (MHPC).

COMPETENCIES (Core / Managerial)

Communication (C)

Accountability (C)

Innovation (C)
Knowledge sharing and continuous improvement (C)
Planning and organizing (C)
Results focus (C)
Teamwork (C)
Professionalism (C)

For detailed information, please consult the [UNESCO Competency Framework](#).

REQUIRED QUALIFICATIONS

EDUCATION

- Advanced University degree (Master's Degree or equivalent) in Physics, Earth System Sciences or other relevant fields.

WORK EXPERIENCE

- Minimum two (2) years of relevant professional research experience in the field of advanced software development for scientific application, with focus on climate modeling.
- Experience in teaching and/or mentoring undergraduate or postgraduate students.

SKILLS/COMPETENCIES

- Ability to collaborate effectively within a multicultural environment with sensitivity and respect for diversity.
- Ability to communicate effectively on complex technical and scientific issues in English.
- Ability to develop and apply advanced scientific software, with emphasis on climate modeling applications.
- Good analytical skills, ability to collect, synthesize and analyze information from various sources.

LANGUAGES

- Excellent knowledge (written and spoken) of English.

DESIRABLE QUALIFICATIONS

WORK EXPERIENCE

- Experience in providing consulting support for users of advanced scientific software.
- Experience in providing software development support for scientific projects

LANGUAGES

- Knowledge of Italian
- Knowledge of another official UNESCO language (Arabic, Chinese, French, Russian, Spanish)

BENEFITS AND ENTITLEMENTS

UNESCO's salaries consist of a basic salary and other benefits which may include if applicable: 30 days annual leave, family allowance, medical insurance, pension plan etc.

The approximate annual starting salary for this post is 55,488 US \$.

For full information on benefits and entitlements, please consult our [Guide to Staff Benefits](#).

SELECTION AND RECRUITMENT PROCESS

Please note that all candidates must complete an on-line application and provide complete and accurate information. To apply, please visit the [UNESCO careers website](#). No modifications can be made to the application submitted.

The evaluation of candidates is based on the criteria in the vacancy notice, and may include tests and/or assessments, as well as a competency-based interview.

UNESCO uses communication technologies such as video or teleconference, e-mail correspondence, etc. for the assessment and evaluation of candidates.

Please note that only selected candidates will be further contacted and candidates in the final selection step will be subject to reference checks based on the information provided.

UNESCO recalls that paramount consideration in the appointment of staff members shall be the necessity of securing the highest standards of efficiency, technical competence and integrity.

UNESCO applies a zero-tolerance policy against all forms of harassment. UNESCO is committed to achieving and sustaining equitable and diverse geographical distribution, as well as gender parity among its staff members in all categories and at all grades. Furthermore, UNESCO is committed to achieving workforce diversity in terms of gender, nationality and culture. Candidates from non- and under-represented Member States ([last update here](#)) are particularly welcome and strongly encouraged to apply. Individuals from minority groups and indigenous groups and persons with disabilities are equally encouraged to apply. All applications will be treated with the highest level of confidentiality. Worldwide mobility is required for staff members appointed to international posts.

UNESCO does not charge a fee at any stage of the recruitment process.

[Apply now »](#)