



ICTP-QLS Postdoctoral Fellowship

The Quantitative Life Sciences (QLS) section of the Abdus Salam International Centre for Theoretical Physics (ICTP) seeks applications for one postdoctoral position starting Fall 2025 from outstanding young scientists of any nationality with a strong research record. ICTP is a UNESCO Category 1 research institute supporting science and education in the developing world, and promotes worldwide initiatives for the career development of Women in Science.

The QLS section provides a unique international, multidisciplinary research environment for postdoctoral fellows with about 15 group members (faculty, postdocs, graduate students and visitors), an intense programme of international workshops and schools, and collaborations with internationally-renowned research institutions. The section has expertise in a broad range of fields (nonequilibrium statistical physics, information theory, statistical learning, reinforcement learning, ecology and evolution, biophysics, stochastic thermodynamics, etc).

Postdoctoral fellows are encouraged, and supported, to contribute to the teaching activities of the ICTP QLS Diploma program and to participate in activities with and in developing countries in order to promote the mission of the ICTP.

Candidates should have a background in nonequilibrium thermodynamics, and be able to carry active research with high degree of independence within the QLS Section's multidisciplinary environment.

Desirable competences are:

- Proven knowledge and expertise in stochastic thermodynamics
- Excellent writing and presentation skills
- Motivation towards modern applications in e.g. biological and active systems
- International mobility and readiness to collaborate with experimentalists
- Candidates with expertise in theoretical aspects, numerical simulations and experimental data analysis are especially encouraged to apply
- Candidates from underrepresented groups are particularly encouraged to apply

The take-home monthly salary will be in the range of 2100—2300 EUR (depending on seniority). Benefits include health insurance, a pension contribution, and special allowances for family members. The appointment will be made for two years, with the possibility of renewal for two more years. Expected start date in the fall of 2025.

Applications and expressions of interest are welcome. Applications should include a cover letter, an updated CV including the full list of publications (max. 4 pages), a statement of research interests (max. 2 pages), and two or more letters of recommendation. Applications must be submitted on-line at:

<https://e-applications.ictp.it/applicant/login/4170>

Incomplete applications will not be considered.

For additional enquiries, and expressions of interest, please contact: qls@ictp.it

Deadline to submit applications: **May 31, 2025**