

African Biophysics Workshop in Experimental and Computational Techniques

DESCRIPTION:

The workshop advances integrated computational and experimental approaches through training, mentorship, networking, and collaboration across the continent.

MORE INFORMATION:

The workshop promotes integrated computational and experimental biophysics through lectures, hands-on training in molecular simulations, structural biology, spectroscopy, membrane biophysics, and AI-driven approaches for biophysical research. Participants will gain experience with open-source scientific tools and resources for molecular modeling, protein structure analysis, and data-driven studies relevant to biomedicine and agriculture. Experimental sessions will explore techniques including AFM, cryo-EM, single-molecule biophysics, protein crystallization, and structure determination, with applications to diseases of major relevance in Africa such as malaria and tuberculosis. Poster and oral sessions will foster scientific exchange and collaborative African research networks.

TOPICS:

- Chemical Physics & Statistical Mechanics
- Molecular Dynamics
- Data Science
- Structural Biology
- Membrane Biophysics
- Scattering Techniques to Probe Biological Matter

TENTATIVE SPEAKERS:

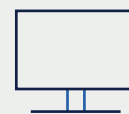
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Silvia Onesti, Elettra Sincrotrone Trieste, Italy
Valeria Rondelli, University of Milan, Italy
Yedilfana Setarge, Addis Ababa University, Ethiopia
Daniel Shadrack, NM-AIST, Arusha, & SJUT, Dodoma, Tanzania
Sintayehu Shenkutie, Hawassa University, Ethiopia



7 - 18 December 2026



Addis Ababa, Ethiopia



**Deadline:
15 August 2026**

DIRECTORS:

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FURTHER INFORMATION:

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Female scientists are encouraged to apply.

GRANTS:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.



Co-Sponsors:



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CONNECTING THE
WORLD OF BIOPHYSICS

