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IITGN

# Research Associate I – Dynamics and Rheology of Active Matter Systems

The Laboratory of Soft and Living Materials at IIT Gandhinagar invites applications for a Research Associate I (RA I) position to work on a project focused on Enzyme-Driven Active Matter with particular emphasis on their structure, organization, and rheological properties. This position is available immediately, offering an exciting opportunity for a highly motivated researcher to join a dynamic and interdisciplinary team.

Job Description: The selected candidate will lead experimental investigations of enzyme-driven active matter systems, examining their structural organization, dynamic behaviour, and rheological properties. Responsibilities include designing and executing experiments involving colloidal suspensions, microrheology, particle tracking, image analysis, and spectroscopy-based techniques. The candidate will collaborate closely with a multidisciplinary team of physicists, engineers, and other researchers to advance the fundamental understanding of active matter and its relevance to soft matter systems. Additional duties include mentoring graduate and undergraduate students, contributing to grant proposal development, and fostering productive research collaborations.

Eligibility: Candidates must hold a PhD in Physics, Chemistry, Biophysics, Biochemistry, or a related field; candidates who have submitted their doctoral thesis are also eligible to apply. A strong publication record in relevant research areas is required. The ideal candidate should have strong background in soft matter physics, and statistical mechanics. Prior experience with colloidal suspensions, microrheology, particle tracking, image analysis, and spectroscopy-based techniques is essential. A background in biology is not required for this role. Excellent written and oral communication skills, along with the ability to work independently and collaboratively, are essential. We are looking for an enthusiastic, self-motivated individual with a high level of attention to detail.

Appointment Details: This appointment is initially for six months, with the possibility of extension based on performance and availability of funding. The consolidated monthly salary is Rs. 71,920 (Rs. 58,000 + HRA Rs. 13,920, payable as per Institute norms). Candidates should be prepared to join within two weeks of receiving an offer.

Application Process: Interested candidates are encouraged to apply via this Google Form. While the position will remain open until filled, priority will be given to applications received by 20 October 2025. Applications from candidates whose expertise does not align with the job description will not be considered. Only candidates whose qualifications and experience closely match the position requirements will be invited for an interview. Meeting the eligibility criteria does not guarantee an interview.

For further inquiries, please contact: Dr. Krishna Kanti Dey, Associate Professor, Laboratory of Soft and Living Materials, Indian Institute of Technology Gandhinagar, Email: k.dey@iitgn.ac.in