



NATIONAL INSTITUTE OF TECHNOLOGY MIZORAM

Inviting Applications for Research Internship

Under Accelerate Vigyan - Vritika Scheme 2022-23

Title: Effects of Additives on Self-Assembly of Surfactants

About NIT Mizoram



National Institute of Technology Mizoram was established in the year 2010 in the state of Mizoram with an objective to impart education, research & training leading to B. Tech, M. Tech & Ph.D. degrees. The institute has been declared as an Institute of National Importance by an Act of Parliament. The Institute has six departments viz. Depts. of Computer Science. & Engineering, Civil Engineering, Electronics & Comm. Engineering, Electrical & Electronics Engineering, Mechanical Engineering and Basic Sciences & HSS. The Institute strongly urges to promote Science & Technology through the research activities. The Institute is pursuing to enhance its research and development activities and the faculties and research scholars are the key workforce in achieving excellence in that direction.

About VRITIKA Research Internship (Training and Skill Internship)

'VRITIKA' is the call for initiation and practice in science through 'Training and Skill Internship'. This program aims to provide opportunities to promising Post Graduate students from universities and colleges to get exposure and hands on research skill development experience. These internships will primarily be facilitated by organizations / institutions / laboratories of national importance such as IITs, IISc, IISERs, NITs, CSIR, ICAR, ICMR etc. For more details visit the following links:

<https://acceleratevigyan.gov.in/programs/abhyas/vritika> & <http://serb.gov.in/abhyaas.php>

Who Can Apply?

PG Level students or Research Scholars who are currently pursuing their degree from Institutions within India.

Scope of this Internship Programme

Solution behavior and structural characteristics of various amphiphiles in aqueous medium at different conditions are very important in several applications. It is well known that the 'intrinsic duality' in their structure leads them to two processes which makes them suitable for various applications. The aggregates formed, as a result of the self-aggregation of the monomer units, which are dispersed in the solution may have different shapes and structures. Presence of additives in aqueous micellar solution alters the tendency of the surfactant molecules and, as a result, it is expected to affect the various micellization parameters. Therefore, knowledge about the association of surfactant molecules and of their possible interactions with the additives is essential for the proper understanding of their behavior in solution.

Internship Details

- Duration: **1st February 2023 to 2nd March 2023.**
- Place of Internship: NIT Mizoram, Aizawl.
- Required Number of Interns: 05.
- No Stipend will be provided for the Internship.
- Boarding and lodging expenditures, and other expenditures incurred as part of internship for consumables, travel, etc. shall be supported as per the Scheme Approval of SERB AV VRITIKA.
- Certificate will be provided to the interns after the successful completion of the internship tenure.

How to Apply?

- The candidate shall apply by filling out the google form:

<https://shorturl.at/ACG39>

Deadline for Application: **21st January 2023.**

- Candidates shall be shortlisted based on academic performance.
- Shortlisted/selected candidates shall be intimated via email on or before **24th January 2023.**

Event Organizer

Prof. Ajmal Koya Pulikkal

Address for Correspondence:

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