



ACCELERATE
विविग्यान



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SERB Accelerate Vigyan

Organized by

Centre for Health Science and Technology
JIS Institute of Advanced Studies and
Research (JIASR) Kolkata, JIS University

Arch Waterfront (17th floor), GP block, Sector V,
Salt Lake, Kolkata 91



Student Internship Program VRITIKA

June 05 – July 28, 2023

SALIENT FEATURES

- 13 funded internship opportunities for a duration of 8 weeks to PG-level students
- This summer internship is sponsored by SERB Accelerate Vigyan
- It aims to provide opportunities to prospective students through gaining exposure, expertise, and hands-on research skills in the area of bioinformatics and machine learning
- Expenses incurred in travel, accommodation, and food (during this period) will be reimbursed

INTERNSHIP PROJECTS

Project 1: Tracking uropathogenic potential of adaptive mutations in *Escherichia coli* and *Klebsiella pneumoniae*, two most predominant pathogens causing urinary tract infections

Coordinator: Dr. Sujay Chattopadhyay, sujayc@jiasr.org

Number of positions: 03

Skills required: Exposure to bacterial evolutionary dynamics and phylogenetic tree reconstruction

Project 2: Demarcating potential drug targets to fight ESKAPE pathogens utilizing computational approach

Coordinator: Dr. Rachana Banerjee, rachana@jiasr.org

Number of positions: 05

Skills required: Programming skills in Python / Perl, experience in biological sequence analysis

Project 3: Accelerating the identification of antimicrobial resistance of human pathogens using artificial intelligence

Coordinator: Dr. Kausik Basak, kausik@jiasr.org

Number of positions: 05

Skills required: Knowledge in AI / ML, programming skills in Python / any other environment

APPLICATION AND SELECTION

- Interested candidates are requested to email their CVs to the respective coordinator
- **Application deadline:** May 29, 2023 (deadline will not be extended)
- No registration fee is required
- **Eligibility criteria:** Students who are presently enrolled in PG degree (MSc / MTech / ME) in a relevant discipline from any recognized institute in India
- Shortlisted candidates will be invited for further interaction (online) on May 31, 2023
- Final selected candidates will be intimated on or before June 01, 2023