



INSTITUTE OF ADVANCED STUDY IN SCIENCE AND TECHNOLOGY
(An Autonomous Institute under Department of Science and Technology, Govt. of India)
Paschim Boragaon, Garchuk, Guwahati- 781035

Advertisement No. 476

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Advertisement for Internship/Training & Project Dissertation at IASST, Guwahati

The Institute of Advanced Study in Science and Technology (IASST), Guwahati is an autonomous R&D Institute under the Department of Science and Technology, Govt. of India. The Institute is engaged in frontier areas of research in the specific domain of Physical, Chemical, Mathematical and Life Sciences. The Institute's aim is to contribute to basic sciences and develop technology using local resources through strong interdisciplinary research approach across different divisions. Institute is equipped with modern and sophisticated instrumentation including TEM, SEM, XRD, LCMS-MS, AFM, DNA Sequencer and computational facility for cutting edge scientific research.

The Institute invites applications against the available vacancies (2024-2025) for short term summer internship/training (2 months) and project dissertation (6 months) in the following areas:

| Subject area | Eligibility criteria |
|---|---|
| Biosurfactant, Industrial enzymes | M.Sc. Zoology / Biochemistry/ Life Sciences/ MBBT/ Biotechnology |
| Polymer Chemistry, Nano-composites, Bio and Chemo-sensors | B.Sc./ B. Tech Chemistry/Physics/Materials Science; M.Sc./ M. Tech Chemistry / Physics/ Materials Science/Nanoscience |
| Nanoscience and Nanotechnology | M.Sc. / B.Sc. Chemistry / Physics / Nanotechnology B. Tech / M. Tech in Material Engineering and related areas |
| Traditional and modern drug discovery, Phytopharmaceuticals | M.Sc. in Chemistry, M.Sc./ M. Tech /M. Pharm in any branches of Life Sciences |
| Probiotics | Microbiology/Biotechnology/Biochemistry/Chemistry |

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| Condensed Matter Physics/Materials Science | Pursuing M.Sc. (Physics) |
| Materials science, Nanoscience, Polymer, Soft condensed matter | M.Sc. in Physics/ Chemistry/ Botany/ Biotechnology/ Nanoscience |
| AI/ML | Pursuing Graduate or Masters in Computer Science, IT, Electronics & Telecom. or Equivalent (like Engr, Tech and BCA/MCA etc.) |
| Microbial metabolites against drug resistant pathogens/ Plant-Microbe interactions | M.Sc. in Biotechnology, Microbiology, Botany (Microbiology) |
| Fluorescence turn-on/ filter paper/air-stable flexible electronic devices for detection of organic pollutants from wastewater and remediation, employing techniques like adsorption and degradation/ Degradation of PAHs using photocatalysis and Radiation of organic carbon and enzyme analysis in sediments | Pursuing M.Sc. in Chemistry Pursuing M.Sc.in Biotechnology/Biochemistry/Chemistry |
| Pharmacology and Drug Discovery | Any Branches of Life Sciences (B. Tech/ B. Pharm/M. Pharm/MSc/M Tech/MS) |
| Electrocatalytic, Photocatalytic Materials, Materials Science/Nanoscience/Condensed Matter Physics | Pursuing B.Sc. Chemistry/Physics/Materials Science; M.Sc. Chemistry/Physics/Materials Science/Nanoscience |
| Applied Mathematics and allied areas | Masters, integrated Masters in Maths, Maths and Computing, Applied Mathematics and any allied areas |
| Biophysics and Plasma applications in Biology | M.Sc. Physics/Biophysics/Chemistry/Biotechnology/ M. Tech Medical Devices |
| Plasma Physics | MSc (Pursuing) in Physics |

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| Infectious diseases, Quorum sensing, Bacterial biofilm, and Drug discovery against antimicrobial resistance | B.Sc. (Pursuing) Microbiology/Biotechnology/ Botany/Molecular Biology/ any branch of Life Sciences M.Sc. (Pursuing) Microbiology/Biotechnology/ Botany/ Molecular Biology /any branch of Life Sciences |
| Plant Bacteriology and Microbial Genetics | M.Sc./M.Tech; B. Tech., any stream of Life Sciences |
| Ferroelectrics/ Thin films/ Materials Science/ Nanoscience/Condensed Matter Physics | B.Sc. Chemistry/Physics/Materials Science; M.Sc. Chemistry/Physics/Materials Science/ Nanoscience |

Application Procedure: Interested candidate should apply online in the institute website (www.iasst.gov.in) **within 15 days** from the date of publication of the advertisement. Incomplete applications and those received after the closing date will not be entertained. Candidates should submit a No Objection Certificate from the parent institute during online application submission. Those who are unable to submit NOC during application process should upload a self declaration certificate. NOC submission is compulsory before joining the internship/ dissertation/training at IASST.

Selection Procedure: Selection will be based on the merit (based on last semester marks)/interview and selected candidates list will be uploaded in the IASST website. The decisions of the admission committee will be final and no correspondence will be entertained in this regard.

Internship/ dissertation/training fee:

1. Candidates selected for project dissertation will have to pay non-refundable fee of Rs. 2500 per month towards laboratory/chemical/equipment handling cost.
2. Candidates selected for short-term internship/ training will not be charged any fee.

Accommodation: Accommodation in institute Dormitory is subject to its availability during joining date. Preference will be given to students from outside Guwahati.

The internship/training programme will start from June 2024 and dissertation from July 2024.

IASST's Right: If suitable candidates are not found in any discipline, IASST reserves the right not to fill up its position for summer/winter session.

Registrar, IASST

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