



Office of the HEAT Sub-Project (PIN-13047)

"Mapping the Soil Microbiome Landscape of Bangladesh: - A Step Towards Building a National Soil Microbiome Repository -MrittikaBiome"

Department of Soil, Water and Environment,
University of Dhaka (DU), Dhaka-1000



বাংলাদেশ
বিশ্ববিদ্যালয় মঞ্জুরী কমিশন



Date: 18/11/2025

PhD/MS Studentship Circular

Job Title: PhD/MS Student opportunity at the Dept. of Soil, Water and Environment, University of Dhaka

Position Summary

Advance microbiology lab at the Dept. of Soil, Water and Environment is seeking highly motivated, talented PhD and MS students to join our dynamic research team in soil microbiology. Higher Education Acceleration and Transformation (HEAT), UGC recently awarded our lab to catalogue soil microbiome over the 88 agroecological subzones (AEZ) of Bangladesh. The successful candidates will conduct original research aimed at advancing the understanding of soil microbiome structure and diversity, contributing to the development of precision farming strategies in the country. This position offers a unique opportunity to develop advanced research skills in microbiology as well as molecular biology and make significant contributions to the academic community.

Key Responsibilities

The research project, titled "Mapping the Soil Microbiome Landscape of Bangladesh: A Step Towards Building a National Soil Microbiome Repository—MrittikaBiome," will involve GIS-based mapping of AEZ subzones, soil sample collection, physicochemical characterization, microbial cataloguing through next-generation sequencing, and subsequent bioinformatics analysis. The recruited students will design and execute original research aligned with their dissertation topic, collaborate closely with faculty advisor, co-advisor and peers, publish findings in peer-reviewed journals, present at national and international conferences, assist in grant proposal preparation, and actively participate in departmental seminars and academic meetings. The candidates will also contribute to data analysis, interpretation, and documentation of results.

Required Qualifications

- PhD candidates must hold a Master's degree in Soil, Water and Environment or equivalent from an accredited institution.
- MS candidates must hold a BS degree in Soil, Water and Environment from University of Dhaka
- Demonstrate academic excellence and a strong record of scholarly work. CGPA above 3.50 is recommended for the candidate.
- Proven experience in research design, execution, and analysis, ideally with demonstrated proficiency in quantitative and/or qualitative methods.
- Excellent analytical, critical thinking, and problem-solving skills.
- Strong written and verbal communication skills.

Desirable Skills & Experience

- Expertise in relevant tools related to bioinformatics or other in silico techniques
- Experience with experimental techniques such as PCR, NGS etc

6/11/20
28/11/20



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- Familiarity with academic writing and the publication process.
- A proactive and independent approach to research while also being a strong team player.

Stipend & Funding

- The successful PhD candidate will receive a monthly stipend of 40,000 tk.
- The successful MS candidate will receive a monthly stipend of 10,000 tk.

Application Procedure

Interested candidates are requested to email Dr. Mohammad Fazle Alam Rabbi (rabbim@du.ac.bd) with a subject line:

Request for PhD/MS Studentship under the HEAT project followed by the candidates Last name/First Name.

The following materials should be attached in a single Pdf file:

- Cover letter summarizing research interests and suitability for the position,
- Curriculum vitae,
- Academic transcripts,
- Contact information for three academic references, and
- A writing sample or thesis abstract if available

Only selected candidates will be contacted for an interview.

Application Deadline: Jan 01, 2026

Dr. Mohammad Fazle Alam Rabbi
Assistant Professor (SPM)
Dept. of Soil, Water and Environment
University of Dhaka

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28/12/20