



Office of the Sub-Project Manager
HEAT Project (SP 13696)
Department of Food Engineering
Gazipur Agricultural University (GAU)



22 September 2025

Circular for Graduate Scholarships under the HEAT Sub-Project (SP 13696)

1. Graduate Scholarships Available

Graduate scholarships are available under the following HEAT Sub-Project (SP 13696) of Gazipur Agricultural University:

“Development of Biodegradable Intelligent Packaging Using Plant Based Polysaccharides and Pigments to Ensure Food Quality”

This project is funded by the Government of Bangladesh and the World Bank through the University Grants Commission (UGC) of Bangladesh. The project will recruit one PhD student and three MS students.

2. Details of Positions

1) PhD Positions (Total: 1)

a) Department of Food Engineering (1 PhD position)
Research Areas

The PhD student will engage in a comprehensive research topic that spans multiple disciplines, including Food Chemistry, Food Technology, Environmental Science, and Microbiology. Specifically, the research will focus on biodegradable materials science, nanotechnology, exploring plant-based polysaccharides, natural antimicrobials, and phytochemicals. The work will delve into polymer chemistry and materials engineering to develop and characterize sustainable packaging solutions. Additionally, the student will investigate encapsulation techniques to enhance packaging functionalities for innovative applications in food preservation and quality monitoring.

Eligibility: MS degree in Food Engineering.

3. Preferred Qualifications (for PhD candidates)

- Research experience in biodegradable packaging materials;
- Relevant Peer-reviewed journal publication(s);
- Strong command of English (reading, writing, speaking); and
- Skills in ICT, modeling, data analysis, and report writing.

2) MS Position (03)

a) Department of Food Engineering (3 MS positions)

Eligibility: B.Sc. in Food Engineering/Food and Process Engineering from any reputed public University in Bangladesh.

Research Areas

Extraction of biomolecules, phytochemicals, encapsulation, optimization (DOE), physicochemical, and microbial quality determination of food.

4. Terms of Reference (ToR)

1) Admission Requirement

Selected candidates must enroll in the respective department of GAU in Autumn 2025 Term.

2) Duration of Scholarship

- PhD: 34 months
- MS: 12 months

3) Scholarship Amount:

- **PhD students:** BDT 40,000/month
- **MS students:** BDT 11,000/month

4) Documents Required: Copies of the following documents

- Forwarding letter with a passport-size photograph
- Curriculum Vitae (CV)
- Letter of motivation
- Bachelor's and Master's certificates
- Bachelor's and Master's transcripts
- Copy of NID
- Copies of publication(s) (if any)

5) Application Submission

Applications must be submitted by 07 October during office hours to the undersigned

Dr. Md. Nahidul Islam

Dr. Md. Nahidul Islam
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