

Md Abidur Rahman Anam

Genetic Engineering & Biotechnology

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ACADEMIC BACKGROUND

To build a long-term career in Biological field with opportunities for career growth. To enhance my educational and professional skills in a stable and dynamic workplace. To solve problems in a creative and effective manner in a challenging position.

ACADEMIC BACKGROUND

Master of Science (MS) (2024-2025)	Department of Genetic Engineering and Biotechnology Shahjalal University of Science and Technology, Sylhet, Bangladesh CGPA: 3.60 out of 4.00
Bachelor of Science (BSc) (2019-2023)	Department of Genetic Engineering and Biotechnology Shahjalal University of Science and Technology, Sylhet, Bangladesh CGPA: 3.42 out of 4.00
H.S.C (Science) (2018)	SAARC International School & College, Sylhet GPA: 4.58 out of 5
S.S.C (Science) (2016)	Moulvibazar Govt. High School GPA: 5 out of 5

PROFESONAL EXPERIENCES

Research Assistant	Microbiology Lab, Dept. of Genetic Engineering & Biotechnology Shahjalal University of Science & Technology, Sylhet (Jan 2026 – Present)
	(i) Performed molecular characterization of endophytic bacterial isolates using PCR, gel electrophoresis, and DNA extraction to identify bacterial species and genes related to phosphate solubilization
	(ii) Applied molecular and microbiological techniques to analyze plant-microbe interactions, including gene-level investigation of stress tolerance mechanisms

RESEARCH & LABORATORY EXPERIENCES

MS Thesis	Research Title: “Evaluation of Insoluble Phosphate Solubilization and Plant Growth-Promoting Activities of Endophytic Bacteria Isolated from <i>Azadirachta indica</i> ”. (Jun 2025 – Dec 2025)
Undergraduate Project	Research Title: “Evaluation of Phosphate Solubilizing Ability and Molecular Identification of Endophytic Bacterial Isolates from <i>Azadirachta Indica</i> ”. (Sep 2023 – Feb 2024)

COMPETENCE

Lab Skills

Molecular Biology: DNA and RNA extraction, PCR, RT - PCR, Gradient - PCR, gel electrophoresis, enzyme assay

Microbiology: Bacterial and fungal culture, fermentation and enzyme production, MIC, MBC, AMR, antibiofilm test, AMR test, biochemical test

Analytical: HPLC, spectrophotometer, nanodrop, centrifuges, evaporator

Computer Skills

Microsoft Office (Word, Excel, PowerPoint)

Bioinformatics: Python (Basic), R

Linguistic

Bengali, English

Soft Skills

Leadership, Organizing, Teamwork, Volunteering

TRAINING & WORKSHOPS

Hands-on-training in HPLC

Centre for Advanced Research in Sciences (CARS), Dhaka University
(27 April 2026 – 03 May 2026)

- (i) Developed protocol for Aminex HPX-87H column
- (ii) Detected organic acid from biological sample

Supervised by: **Dr. Asma Rahman** (Principal Scientist, FNRL, CARS) and **Dr. Latiful Bari** (Chief Scientist, FNRL, CARS).

AWARDS AND CERTIFICATES

- Volunteered at the **International Conference on Life Sciences** arranged by the **School of Life Sciences**, Shahjalal University of Science and Technology, Sylhet. (Oct 17, 2025 – Oct 18, 2025)
- **Presented a Poster** in an international conference on '**38th BSM Annual International Conference on Microbes in Health and Nutrition**' organized by Bangladesh Society of Microbiology (BSM). (Dec 29, 2024)

Title: Evaluation of Endophytic Bacterial Isolates from *Azadirachta indica* for Plant Growth-promoting Activity

REFERENCES

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