

Md Naimur Rahman

841, Ibrahimpur Bazar, Kafrul, Dhaka-1207, Bangladesh
nrnaem111@gmail.com | mdnaimurrahman.com | (+880) 1786970131

Education

Master of Science in Organic Chemistry 2024 -Present
Department of Chemistry
Bangladesh University of Engineering and Technology

BS (Hons) Major in Chemistry, Minor in Physics and Mathematics 2018-2023
Department of Chemistry, University of Dhaka, CGPA: 3.05 on a scale of 4.00

Research Experiences

Research Associate 2023-Present
Utkorsho, an Ed-Tech company in Bangladesh

- Researching teaching methodology and effective education services for school students

Undergraduate Researcher 2022-2023
Electrochemical Research Lab | University of Dhaka

- Prepared a metal-ligand complex that can determine Dopamine and Uric acid simultaneously
- Electrochemical techniques such as Cyclic voltammetry and Differential Pulse voltammetry have been used to establish the complex.
- Suggested the complex structure using computational DFT calculation and Molecular dynamics.

Researcher & Trainer 2021-2022
ChemFusion, Bangladesh

- Conducted basic research training on article search, reading, and data understanding.
- Studied heteroatom-doped carbon as a bifunctional electrocatalyst for a Unitized regenerative fuel cell in an alkaline electrolyte.

Research Assistant & Trainer 2021-2023
The Red-Green Research Centre, Dhaka

- Learned and served as a trainer on DFT calculation using Gaussian and molecular dynamics using YASARA.
- Prepared deep-eutectic solvent using glycerol and choline chloride.

Summer Research Fellow 2019
Indian Institute of Science Education and Research (IISER) Kolkata, INDIA

- Synthesized an organic crystal that exhibits piezoelectricity
- NMR and Nanoindentation have been used for characterization.

Conference presentation

- **Rahman M.N;** Jahan J; “Crystal Engineering: Designing non-centrosymmetric organic solid for resulting piezoelectricity” *1st BD chemcarnival & IYPT 2019 at University of Dhaka*, July 26, **2019**, Dhaka, Bangladesh (Poster Presentation).

Awards

1. ACS Festival Grants Winner, ChemFusion, Bangladesh 2021
2. Champion in Chemistry Olympiad at 11th HGC National Fiesta 2017, Dhaka, Bangladesh 2017
3. 1st place in Chemistry Olympiad at Science Fair 2016, BN College, Dhaka 2016
4. SSC Government Scholarship 2015

Teaching Experience

Chemistry Mentor, Bangladesh Team 2024
International Junior Science Olympiad 2024

- Mentoring 6 participants for final round in Romania with theory and lab classes

Research Associate & Instructor, Utkorsho 2023-Present
An emerging Ed-tech platform in Bangladesh

- Conduct over 100 hours of online chemistry classes for school and college students and seek teaching methodology, online adaptive learning, and school chemistry content.

Chemistry Lecturer, Udvash 2023-Present
A leading publication and academic care institute focused on providing intensive educational care to Bangladesh's secondary and higher secondary students.

- Conducted over 1500 hours of offline chemistry classes for more than 20000 school and college students all over Bangladesh. (Visited 35 out of 64 districts)

Chemistry Instructor, Bangladesh Junior Science Olympiad 2021
A platform for the popularization of Chemistry in Bangladesh

- Conducted 20+ hours of training sessions on basic chemistry and problem-solving in 2 camps

Volunteering/Organizing Experiences

President, Project Chemistry 2023-Present
A platform for the popularization of Chemistry in Bangladesh

- Organized science carnival, seminars, and workshops on basic research and chemistry education.

CEO, ChemFusion

2021-2022

One of the largest organizations for all Bangladeshi chemical science students

- Maintained and built a network with chemistry PhD candidates, scholars, and professionals worldwide along with 16 public university wings.
- Managed training and workshops for the executives and wings.

Chief Programme Coordinator, ACS & ChemFusion

2021-2022

ChemFusion International ChemFest-2022 (Funded by ACS)

- Received a festival grant from the American Chemical Society (ACS)
- Completed the ChemFest with 3000 students

Content Creator, OxyChem

2021-Present

My YouTube channel

- Created undergraduate chemistry courses and chemistry software user guideline videos.

Skills

Laboratory

Qualitative Analysis
CV, DPV
NMR
UV
Nanoindentation

Software

Gaussian
YASARA
Discovery Studio
ChemDraw
Origin Lab

Management

Event Management
Networking
Communication
Delegation
Leadership

Teaching

Animation
Simulation
Experimentation

Language Proficiency and Test score

Bangla (native), English (fluent)

IELTS Band Score:

Speaking

7.0

Reading

6.0

Writing

6.0

Listening

7.5

Overall Band

6.5

Personality Test result: ESFJ-A

References

Professor Dr. Md. Iqbal Rouf Mamun

Department of Chemistry
University of Dhaka, Dhaka-1000, Bangladesh
Email: iqbalrouf@du.ac.bd
Mobile No: +8801715014564

Ratul Khan

Chief Executive Officer
Utkorsho, Onnorokom Ed-tech Ltd
2/1/E, Dhaka 1000
Mobile No: +8801814806235
Email: ratul@utkorsho.tech