

# Tazrin Chowdhury

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## EDUCATION

- **Southern Illinois University, Edwardsville, IL** May 2024  
MS in Civil Engineering | GPA: 4.00/4.00
  - *Thesis:* Effects of Waste-to-Resource Biochar from Corn Stover on Nitrate Removal from Water.
  - *Relevant Coursework:* Application of GIS in Hydrologic Analysis, River Restoration, Municipal Infrastructure Design, Wastewater Treatment Design, Water Quality and Treatment.
- **Shahjalal University of Science and Technology (SUST), Sylhet, Bangladesh** Dec 2018  
BS in Civil and Environmental Engineering | CGPA: 3.32/4.00
  - *Project:* Low-cost salinity treatment for drinking purpose using indigenous materials.
  - *Relevant Coursework:* Design of Hydraulic Structures, Irrigation and River Engineering, Project Planning and Management.

## WORK EXPERIENCE

- **Southern Illinois University Edwardsville, IL**  
*Graduate Teaching Assistant* Aug 2023 - Present
  - Grading homework, assisting professors with proctor examinations, and guiding students in completing class projects.  
*Graduate Research Assistant* Sep 2022 - Present
  - Conducting research on effects of ground corn stover on nitrate removal from water.
- **Clifton Textile Group, Chittagong, Bangladesh** Jan 2021- Jan 2022  
*Environment Officer*
  - Worked on ensuring environmental compliance and sustainability.
  - Conducted training to aware employees accordingly.
- **Shahjalal University of Science and Technology, Sylhet, Bangladesh** Dec 2017- Dec 2018  
*Undergraduate Research Assistant*
  - Assessment of laterite soil for low-cost salinity removal.

## HONORS AND WORKS

- Competitive Graduate Award (CGA), university level award for graduate study at SIUE.
- Wrote a proposal, applied for and obtained Research Grant for Graduate Students (RGGS), SIUE.
- Chowdhury, T., J. Zhou. 2024. "Effects of Waste-to-Resource Biochar from Ground Corn Stover on Nitrate Removal from Water". A peer-reviewed full Proceedings paper, accepted, *2024 World Environmental & Water Resources Congress*, EWRI, ASCE. Milwaukee, Wisconsin, May 19-22, 2024.
- Chowdhury, T., J. Zhou. 2023. "Experimental Study of Ground Corn Stover Biochar for Removing Nitrate from Water". Abstract, oral presentation, *28<sup>th</sup> Mid-American Environmental Engineering Conference*, University of Missouri, Columbia, MO, November 4, 2023.
- Abstract, poster presentation, Graduate School Research Symposium, SIUE, April 2023.
- Chowdhury, T., J. Miah, and B. K. Banik. 2022. "Low-Cost Salinity Treatment for Drinking Purpose Using Indigenous Materials." *Advances in Civil Engineering*, Springer Lecture Notes in Civil Engineering, Vol. 184 (pp. 37-44).

## COMPUTER SKILLS

- AutoCAD, Microsoft Office, EPANET, Water CAD, ArcGIS, Block pad.

## INVOLVEMENT WITH PROFESSIONAL ASSOCIATIONS

- Member, SIUE Society of Women Engineers.
- Volunteer, 5<sup>th</sup> International Conference on Engineering, Research, Innovation and Education-2019, SUST.