

# Amena Begum

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## Academic Credentials

<b>University of Texas at Arlington</b> Master of Science in Civil Engineering Major: Geotechnical Engineering	Aug. 2023-Present
<b>Shahjalal University of Science and Technology (SUST)</b> Bachelor of Science in Civil and Environmental Engineering (CEE)	Jan. 2017- Dec. 2023 CGPA: 3.45/4.00

## Professional Experience

<b>Graduate Research Assistant</b> Solid Waste Institute for Sustainability, University of Texas at Arlington, Texas	Sept. 2023-Present
<b>Lecturer</b> , Dept. of Civil Engineering, Leading University, Sylhet	Sept. 2022- Jul. 2023
<ul style="list-style-type: none"><li>▪ Courses taught: Structural Analysis and Design, Geology &amp; Geomorphology, Engineering Materials, and Sustainable Development</li><li>▪ Attended as a board member of 2 undergraduate thesis presentations of the Spring, 2022 semester</li></ul>	
<b>Document Controller</b> , Shinbo (BD) Ltd, Samsung C&T Corporation, Dhaka	Jul. 2022- Sept. 2022
<ul style="list-style-type: none"><li>▪ Served in the Material Team at Shinbo, a sub-contractor of the Hazrat Shahjalal International Airport (Terminal-3) expansion project, Dhaka</li></ul>	

## Research Experience

<b>Research Assistant</b> , SUST Research Center, SUST	Jun. 2020- Aug. 2022
Project: Design and fabrication of two apparatuses for determining cohesion of cohesive soil under pneumatic confinement and tensile strength of soil. Principal Investigator: Prof. Dr. Mohammad Shahidur Rahman, Professor	
<b>Undergraduate Thesis</b> , Dept. of CEE, SUST	Aug 2021- Dec. 2021
Thesis Title: A laboratory-based study on cohesion and tensile strength of remolded clay soil Supervisor: Prof. Dr. Mohammad Shahidur Rahman, Professor	

## Leadership Experience

<b>President</b> , SUST Science Arena, SUST, Sylhet	Aug. 2020- Nov 2021
<ul style="list-style-type: none"><li>▪ Led a group of 33 executive members and organized 9 sessions with researchers, scientific personnel, and professors around the world</li></ul>	

### **Extra-curricular and Volunteer Experience**

- Attended seminar on “Tubular System for the Design of Supertall Buildings”- by Department of CEE, SUST (Jul 2021)
- Attended “CLIENT SUMMIT 2020”- organized by Center for Research, Testing and Consultancy (CRTC), CEE, SUST (Feb 2020)
- General Member of Shahjalal University Debating Society (Feb 2017- Mar 2018)
- Runner-up of Intra Department Badminton Tournament 2019- Mixed Double Category
- Participant in “CAD CONQUERORS”- AutoCAD Competition- EXCEED, SUST CEE Festival- 2018
- Student Volunteer: International Convention of Vice Chancellors, 2019 (Apr 2019)

### **Conference Proceedings**

“An Experimental Study on The Relationship Between Compressive and Tensile Strength of Clay Soil”; presented at: *7th International Conference on Engineering Research, Innovation and Education (ICERIE 2023)*, SUST, Sylhet; January 13, 2023.

“Effect Of Sodium Chloride Water on Compressive Strength and Splitting Tensile Strength of Concrete”; presented at: *7th International Conference on Engineering Research, Innovation and Education (ICERIE 2023)*, SUST, Sylhet; January 12, 2023