

## *Résumé of – SAMIHA BINTE SHAHID*

Civil and Environmental Engineering,  
Bangladesh University of Engineering and  
Technology (BUET)

+19517837664  
samiha.buet@gmail.com  
290 Big springs road, Riverside, Ca-92507

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### **Educational History**

2013 – 2017	B.Sc. in Civil and Environmental Engineering Bangladesh University of Engineering and Technology CGPA: 3.13/4.0
2012	Higher Secondary Certificate Examination Milestone College, Dhaka, Bangladesh GPA-5.0/5.0
2010	Secondary School Certificate Examination Milestone College, Dhaka, Bangladesh GPA-5.0/5.0

### **Research and Employment**

Oct. 2017 - Apr. 2018	Employed as an Environmental Engineer in Japanese ETP consulting firm
Mar. 2017 - Aug. 2017	<u>Project work I:</u> Designing of a wastewater treatment plant at Mohammad Denim industries Limited under Dr. M.S. Miah.
Jul. 2016 - Aug. 2017	<u>Project work II:</u> Designing of a Up-flow Anaerobic Sludge Blanket (UASB) followed by post aeration treatment process at Radiance Industries Limited under Dr. M.S. Miah.
2016 – 2017	<u>Undergraduate thesis research:</u> Evaluation of Up-flow Anaerobic Sludge Blanket (UASB) treatment process in treating textile wastewater under the supervision of Prof. Rowshan Momtaz

### **Publications and Presentations**

1. **Shahid, S. B.;** Rashid, I.; & Mamtaz, R. Performance evaluation of UASB followed by DHS reactor treatment process and its cost in treating textile wastewater. International Conference on Civil Engineering for Sustainable Development (ICCESD), KUET, Khulna, February 9-11, 2018.
2. **Shahid, S. B.;** Miah, M. S. & Mamtaz, R. Application of UASB and biofiltration process for Denim wastewater treatment in Bangladesh. 13<sup>th</sup> International Knowledge Globalization Conference 2018. International University of Business Agriculture and Technology (IUBAT), Dhaka, February 23-26, 2018.
3. **Shahid, S. B.;** Mamtaz, R. & Miah, M. S. Review paper on: UASB Bioreactor for Sewage Treatment, IUBAT Multi Academic Journal, volume-3. 2018. Accepted.
4. Rashid, I.; **Shahid, S. B.** & Mamtaz, R. Comparative study among different technology of textile wastewater treatment process. International Conference on Engineering, Research, Innovation and Education (ICERIE), SUST, Sylhet-3114. 2019. Accepted.

5. **Shahid, S. B.;** Islam, N. Poster presentation on Microbial Fuel Cell. Civil Engineering Summit, Bangladesh University of Engineering and Technology (BUET), Dhaka. 2017.
6. **Shahid, S. B.;** Rashid, I.; Mamtaz, R. Poster presentation on High Rate Anaerobic Waste water treatment using UASB reactor. Bangladesh University of Engineering and Technology (BUET), Dhaka. 2017.

### Technical Skill

- Computer Programming (C++)
- Matlab
- Shell Scripting
- SPSS

### Workshops Attended

	Topic	Organizer/Location
2018	Achieving Excellence in Academic Research	13 <sup>th</sup> International knowledge Globalization Conference
2017	Padma Bridge Construction	Bangladesh University of Engineering and Technology

### Research Interests

- Water quality Modeling
- Environmental nanotechnology
- Environmental system engineering
- UV/ASP; Aqueous photochemistry
- Computational Chemistry
- Kinetic study of chemical and biological treatment process

### Honors and Awards

2018 (ICCESD)	<b>Best Paper Award</b> at International Conference on Civil Engineering for Sustainable Development
2013 – 2017	Bangladesh Govt. Scholarship for Undergraduate Studies
2012	Board scholarship: Awarded by the Govt. of Bangladesh, Grade-A (for excellent result in board exam)

### Relevant Courses

- Fluid Mechanics
- Design of Water supply, Sanitation and Sewage systems
- Hydrology, irrigation and Flood management
- Differential and Integral Calculus
- Solid and Hazardous waste management
- Numerical Method
- Open channel Flow
- Statistics

### Social Outreach and Activities

- Volunteered in “Civil Fest-2016” (a national level competition).
- Worked as student Representative and manager of *Chatrri Hall (student residence)*, BUET, Bangladesh.
- Life-long blood donor (A<sup>+</sup>) and a member of - “Badhan” (Voluntary blood donors organization, Bangladesh).
- Volunteered at “Jaago Foundation”. Worked to educate underprivileged children of Bangladesh.

### Affiliations

- American Society of Civil Engineering (ASCE)
- Women in Engineering (WIE)