SIFAT KALAM

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Career Objectives

To reach career excellence through dedication, sincerity, creativity, hard work and aspiring for a challenging and growth oriented career in teaching profession wherein I can prove my ability in serving the institution and my country as a whole.

Job Experiences

- Working as a Lecturer in Civil and Environmental Engineering Department (CEE) at North South University (NSU), Bashundhara, Dhaka, Bangladesh, from 15 Aug 2015 till today.
- Worked as a Graduate Research Assistant from September, 2012 to May, 2015 in Civil Engineering Department at the University of British Columbia (UBC), Vancouver, BC, Canada
- Worked as a Graduate Teaching Assistant from September, 2012 to May, 2015 in Civil Engineering Department at the University of British Columbia (UBC), Vancouver, BC, Canada.
 Courses: Environmental Laboratory Analysis, Engineering Hydrology, Hydrology and Open Channel Flow, Fluid Mechanics I, Environmental Impact Studies
- Worked as a Lecturer in Civil Engineering Department from 2nd May, 2011 to 3rd May, 2012 at University of Information Technology and Sciences (UITS), Baridhara, Dhaka, Bangladesh

Educational Attainment

Graduate

M.A.Sc. in Civil Engineering

Areas of Specialization: Environmental Engineering (Pollution Control and Waste Management)

Institution: The University of British Columbia (UBC), Vancouver, Canada

Passing Year: May, 2015

Undergraduate

B.Sc. in Civil Engineering

Institution: Bangladesh University of Engineering and Technology (BUET)

Passing Year: February, 2011

Higher Secondary School Certificate (H.S.C.)

Institution: Viqarunnisa Noon College

Group: Science Board: Dhaka Passing Year: 2005

Secondary School Certificate (S.S.C.)

Institution: Mohammadpur Preparatory & Girls' High School

Group: Science Board: Dhaka Passing Year: 2003

Graduate Thesis

Worked on the M.A.Sc. thesis project of "A Pilot Scale Study of Combining Struvite Precipitation with UniBAR-Anammox process as a Sustainable Unified Solution for Managing Nutrients in Centrate" at Annacis Wastewater Center Research Facility, Metro Vancouver, Delta, BC, under the supervision of Prof. Dr. Donald S Mavinic, Professor, Department of Civil Engineering, Pollution Control and Waste Management Group, UBC.

- Worked on nutrients recovery in the form of struvite pellets (a slow release fertilizer) from centrate at Annacis wastewater center, Metro Vancouver, Delta, BC, Canada
- Involved in research on wastewater treatment by planning, setting and running experiments in pilot scale
- Designed and built pilot scale struvite reactor for struvite precipitation (a chemical process) and UniBAR-Anammox reactor for Anammox process (a biological process) to remove and recover phosphorus and nitrogen from wastewater
- Conducted different experiments, Sample testing and experimental data analysis on wastewater (centrate) while running the pilot scale reactors continuously over a year

Undergraduate Thesis

Undergraduate Thesis entitled "**Effect of Chlorination on Domestic and Textile Wastewater**" under the supervision of **Dr. Md. Delwar Hossain**, Professor, Department of Civil Engineering, Bangladesh University of Engineering and Technology (BUET)

- Conducted bench scale study on domestic and textile wastewater by applying different chlorine doses and observed the change in water quality
- Determined the optimal chlorine dose and contact time for BOD and COD removal from wastewater

Conferences:

- Presented on the topic of "Wastewater Nutrients Removal and Recovery by Combining Struvite Precipitation with UniBAR-Anammox Process" at 50th Central Canadian Symposium On Water Quality Research conference, Feb 18-19, 2015, Burlington, Ontario, Canada.
- Presented on the topic of "Optimization of Combined Struvite Precipitation and UniBAR-Anammox process as a Sustainable Unified solution for Nutrients management in wastewater sector" at Water & Environment Student Talks (WEST) Conference, June 8-10, 2013 UBC, Vancouver, BC, Canada.
- Attended BCWWA 2013 Annual Conference & Trade Show, April 20-24, 2013, Kelowna, BC, Canada
- Attended WEF/IWA Nutrient Removal and Recovery 2013: Trends in Resource Recovery and Use conference, July 28 - 31, 2013, Vancouver, BC, Canada

Magazine Article:

 Kalam, S., 2015. Electronic Waste- Are We Ready? Towards Sustainable Development, Oct 27, pp.32-33. ISBN No: 978-0-99-36241-2-4.

Other Work experiences

- CEE Department Orientation Program, NSU, Bangladesh [Feb/2016]
 Job Responsibility: Organizing Department Orientation Program
- Civil Engineering Festival 2015, North South University (NSU), Bangladesh [Oct/2015]
 Job Responsibility: Organizer of Civil Fest and Cultural Show

- Engineering Power UP! Event by UBC engineering & WWEST, Canada [Apr/2014]
 Job Responsibility: Conducting lab experiments for high school girls to encourage in engineering carriers
- Graduate student event at UBC for prospective graduate students, Canada [Oct/2014]
 Job Responsibility: Organizing the event involving 5 engineering schools of Canada
- Survey on Gulshan Traffic Congestion Mitigation Project, Bangladesh [Oct/2010]
 Job Responsibility: Traffic Volume count
- Pre-Feasibility Study of Grade Seperated Intersections in Mirpur road, Bangladesh [July/2010]
 Job Responsibility: Classified Directional Manual Traffic Count Survey
- Socio-economic Evaluation of Submercible Rural Roads in Sunamganj Project, Bangladesh [May/2010]
 Job Responsibility: Household Survey in Sunamganj upazilla and Biswamverpur upazilla
- Origin-Destination (OD) survey, Bangladesh [Nov/2009]
 Job Responsibility: OD survey at road intersections

Scholarships and Awards

- Canadian Association on Water Quality Award (UBC)
- Faculty of Applied Science Graduate Award (UBC)
- Talent pool and general grade scholarship for term final results & Dean's list (BUET)
- Board Scholarship (Talent pool) for S.S.C. & H.S.C. results
- 2nd in talent pool grade in Primary scholarship & 4th in talent pool grade in Secondary scholarship

Field Visit

- Annacis Island Wastewater Treatment Plant, Delta, BC, Canada
- Northwest Langley Wastewater Treatment Plant, Langley, BC, Canada
- Seymour-Capilano Filtration Plant, Drinking water Treatment Plant, North Vancouver, BC, Canada
- Coquitlam Water Treatment Plant, Drinking water Treatment Plant, Coquitlam, BC, Canada
- 3rd Karnafuli River Bridge construction, Chittagong, Bangladesh
- Kaptai Hydro-electric project, Kaptai, Rangamati, Bangladesh
- Practical surveying in Purbachal Land Project, Dhaka, Bangladesh

Extracurricular Activities and Awards

Awards in Debate, Sports, Extempore Speech, Recitation, Song and Quiz competition

References

Dr. Donald S. Mavinic

Professor, Department of Civil Engineering

The University of British Columbia (UBC), Vancouver, Canada

Email: dsm@civil.ubc.ca

Dr. Md. Delwar Hossain

Professor, Department of Civil Engineering

Bangladesh University of Engineering & Technology (BUET), Dhaka, Bangladesh

Email: delwar@ce.buet.ac.bd

I hereby declare that all the information above is correct & true.