

Curriculum Vitae of Md Fakrul Islam

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Biography

Md. Fakrul Islam is Research Associate and pursuing PhD at Bergisch Universität Wuppertal (BUW), Germany. He has completed his M.S in Disaster Management (Thesis: Particulate Matter in Ambient Air and Its Associated Health Risk in Urban and Rural Area of Bangladesh) and BSc in Electrical and Electronic Engineering. He has been working as a Field Service Engineer since 2006 on analytical instruments (Shimadzu, PerkinElmer, Bruker, Thermo scientific etc, and worked on different types of instruments such as analytical instruments, air quality-monitoring instruments etc.). In 2015, he went to Wuppertal University, Germany for a short course (For two months) on Air Quality Analysis Methods (Installation, Operation, Calibration, Quality Assurance, Maintenance, Data analysis with procedure as per EU standards). He has visited Singapore, India, Germany, Switzerland, Netherlands, Austria and Italy.

Educational Qualifications

Exam yr	Name of Degree	Result	Institute/ University
2021	PhD on Mass Spectrometry (Mass Spectroscopy for determining contamination in the gas phase)	Enrolled	BUW, Germany
2017	MS in Disaster Management (Thesis - Two Years)	3.70 (out of 4)	Department of Geography and Environment, DU, Bangladesh
2011	BSc in Electrical and Electronics Engineering	3.14 (82.8%)	International University of Business Agriculture and Technology (IUBAT)
2002	Diploma in Electronics Engineering	First	Rangpur Polytechnic Institute
1999	Secondary School Certificate	First	Gerai High School, Mithapukur, Rangpur

Professional Experiences

2021- Present	Research Associate, Physical and Theoretical Chemistry, BUW, Germany.
2012- 2021	Maintenance Engineer (Instruments), University of Dhaka, Bangladesh
2006-2012	Sr. Engineer (Spectroscopy maintenance), Dhaka, Bangladesh
2005-2006	Lab Instructor (IT), Stamford University of Bangladesh

Diploma/ Short course

1. Web Design and Development for 2 (two) months under Department of Computer Science and Engineering, University of Dhaka.
2. Advanced Research laboratory Air Quality Analysis Methods on air pollution for 2 (two) months conducted by BUW, Germany.
3. Environmental health Research in Bangladesh for 2 (two) days conducted by icddr,b & the University of Chicago, USA organized by BSMMU, Bangladesh.
4. Short course on data analysis (by stata) on environmental epidemiology for 3 (three) days conducted by The University of New South Wales, Australia; Organized by the University of Chicago, USA.
5. The Course of "Chemistry of Atmospheric Environment"

Training

1. IRPrestige-21(FTIR) Basic service training for 5 (five) days conducted by Shimadzu Asia Pacific Pte Ltd, Singapore, held at Singapore, 2006.
2. Installation Qualification and Operational Qualification (IQOQ) certificate on LC, LCMS, GC, GCMS, TA, UV, AA, FTIR, ICP, TOC conducted by Shimadzu Asia Pacific Pte Ltd, Singapore, 2007.
3. Intermediate FTIR, AAS UV-Vis Spectrophotometer, HPLC, GC, TOC instruments service training conducted by Shimadzu Asia Pacific Pte Ltd, Singapore, held at Bangladesh, 2008 and 2009.
4. Service training on Lambda 25/35/45 (UV Spectroscopy), FTIR, AAS with software conducted by PerkinElmer, India, 2012.
5. Maintenance of Air Quality Monitoring Equipment conducted by BUW, Germany and University of Dhaka, Bangladesh, 2015.

Research Interests

Indoor and Outdoor Air pollution, Soil and water pollution, analytical and other scientific Instrumentation research

Computer Literacy

Software: MS word, MS excel, MS power point, windows XP, Win7, Win10 etc

Programming language: C, python, HTML, CSS etc

Hardware: Computer Troubleshooting, networking etc

Language skills

Language	Listening	Reading	Writing	Speaking
Deutsch	A2 Level	A2 Level	A2 Level	A2 Level
English	Excellent	Excellent	Better	Better
Bangla	Native	Native	Native	Native

Country visited

Germany, Switzerland, Netherlands, Singapore and India

Membership

1. Network of Instrument Technical personnel and User scientists of Bangladesh (NITUB), Life member # LM-162.
2. International Association of Engineers (IAENG), Membership # 264625, Hong Kong.

Publications

Thesis

1. Master Thesis, Title: Particulate Matter in Ambient Air and Its Associated Health Risk in Urban and Rural Area of Bangladesh: A Case Study of Dhaka and Rangpur, 2019.
2. Under Graduate Practicum Report, Title: Instrumentation, Troubleshooting & Application of Analytical Instrument, 2011.

Peer-Reviewed Journal

1. Nurul Huda, Shahid A. H. M.M. Islam, M. Fakrul Islam. (2018) Chemical and Morphological Characteristics of Particulate Matter Suspended in the Air of the Dhaka University Area of Bangladesh. Open Journal of Air Pollution, 7, 95-106. <https://doi.org/10.4236/ojap.2018.72005>
2. M. Fakrul Islam, M. Maksudur Rahman, Shahid Akhtar Hossain, M.M. Islam. Particulate Matter in Ambient Air and Its Associated Health Risk in Urban and Rural Area of Bangladesh (to be submitted)

Conference Abstract

1. M. Fakrul Islam, M. Maksudur Rahman, Shahid Akhtar Hossain, Md Aftab Ali Shaikh, M.M. Islam. (2019) (2nd Poster price awarded) Health Risk Assessment of Particulate Matter in Ambient Air of Urban and Rural Areas in Bangladesh, Conference on Environmental Solutions for Sustainable Development: Towards Developed Bangladesh (CESSD 2019), Abstract no. PP-A20, P-120

Award/Scholarship

1. Selected as best poster presentation in the Conference on Environmental Solutions for Sustainable Development: Towards Developed Bangladesh (CESSD 2019)
2. Scholarship on Primary School certificate

Reference

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