

K.M. Rakib Al Hasan

Engineer (Nuclear), Nuclear Safety Section, BAERA

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OBJECTIVE

To pursue my career in Bangladesh Atomic Energy Regulatory Authority (BAERA) where I would be able to explore my capabilities and gradually enhance my knowledge, skills and abilities to perform my duties and responsibilities effectively & efficiently and accordingly add values to this organization as well as this country.

WORK EXPERIENCE

1. Engineer (Nuclear)

Bangladesh Atomic Energy Regulatory Authority (BAERA)

E-12/A, Agargon, Dhaka-1207

Period: June 2021- Present

2. Lecturer

Dept. of Nuclear Science and Engineering (NSE)

Military Institute of Science & Technology (MIST)

Period: 1 January 2019- 1 June 2021

Milestones: Other than being responsible for taking certain theoretical and lab courses, I am involved as a batch coordinator of a certain batch. I also supervise a number of students on their academic project.

ACADEMIC CREDENTIALS

- ❖ **M.Sc. in NSE (Ongoing)**, Military Institute of Science and Technology(MIST)
- ❖ **B.Sc. in Nuclear Engineering**, Military Institute of Science and Technology(MIST)
CGPA- 3.74 (2nd position)
Passing Year: 2019
- ❖ **HSC**, Birshreshtha Noor Mohammad Public College(BNMPC)
GPA-5.00 (Out of 5)
Passing Year: 2013
- ❖ **SSC**, Dhaka Collegiate School
GPA-5.00 (out of 5)
Passing Year: 2011

ACHIEVEMENTS

- ❖ MIST Stipend based on MIST admission test result held in 2014.
- ❖ MIST stipend based on academic excellence in the undergraduate program (2015-2018)
- ❖ MIST Dean's award for excellent overall academic performance in an academic year (2016, 2018)
- ❖ MIST Commandant's award for excellent overall academic performance in the academic year of 2017.

RESEARCH INTEREST

Nuclear Safety, Nuclear Accident Analysis, Thermal Hydraulics of Nuclear Reactors, Nuclear Reactor Core Design, Nuclear Power Plant Engineering.

RESEARCH WORK

- ❖ Undergraduate thesis on “**Thermal Power Calibration and Validation of 3 MW TRIGA Mark-II Research Reactor Under Forced Convection Cooling**” supervised by Engineer Ashraful Haque, Director, Center for Research Reactor(CRR)
- ❖ Transient Analysis for Different Malfunctions of VVER-1200 by Using PCTRAN Simulation Software.
- ❖ CFD Modeling of a PWR Subchannel by ANSYS Simulation Software.

ACADEMIC PROJECT

- ❖ Thermohydraulic simulation of HTR-10 Nuclear Reactor Core using realistic CFD approach.

TECHNICAL SKILL

Documentation Skills: Microsoft Word- 2016, Microsoft PowerPoint- 2016, Microsoft Excel- 2016, Microsoft Visio- 2016.

Software Efficiency:

- ❖ **PCTRAN** (PC-Based Nuclear Power Plant Simulator)
- ❖ **COMSOL Multiphysics** (a cross-platform finite element analysis, solver and multiphysics simulation software.)
- ❖ **ANSYS** (Mechanical finite element analysis software is used to simulate computer models of structures, machine components for analyzing strength, toughness, elasticity, temperature distribution, fluid flow, and other attributes)

Programming Languages: Basic C programming, MATLAB

TRAINING & INDUSTRIAL ATTACHMENTS

- ❖ Industrial training program at Center for Research Reactor, Savar (2017)
- ❖ Industrial training program at National Institute of Nuclear Medicine & Allied Science, BSMMU (2017)
- ❖ Industrial visit at Rooppur Nuclear Power Plant (Under Construction) (2018)
- ❖ Industrial training program of RNPP simulator at Atomic Energy Center, Dhaka (2018)
- ❖ Industrial training program at Beach Sand Minerals Exploitation Centre, Cox’s Bazar (2018)
- ❖ Industrial training program at Ashuganj Power Station Company Limited (2018)

PERSONAL INFORMATION

Parents : Father’s Name- Md. Rezaul Karim Khan
Mother’s Name- Kajal Rekha

Permanent Address : Village: Dahara, PO: Siddhakathi, PS: Nalchity, Dist: Jhalakathi

Date of Birth : 10 October, 1996

Nationality : Bangladeshi (by birth)

Blood Group : O (+ve)

REFERENCES:

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