

CV for Mohammad Khan

Mohammad Monzur Hossain Khan
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****Academic degrees achieved:**

Subject	Name of degree	University	Country	Result	Year of graduation
Nuclear Power Reactor Safety & Thermal hydraulics	Ph.D	Swedish Royal Institute of Technology, KTH	SWEDEN	---	Waiting for PhD thesis defense.
Nuclear Energy	M.Sc	Aachen University of Applied Sciences	GERMANY	First class (71% marks)	2013
International Business Administration	M.B.A	Wittenborg University of Applied Sciences	NETHERLANDS	First Class (69% marks)	2010
Industrial & Production (IPE)	B.Sc Engineering	Shahjalal University of Science & Technology	BANGLADESH	First Class (66% marks)	2004

****Professional Experience: Academic, Research, Administrative & Industries**

-Academic experience:

Period	Designation	Course taken	Organization
April, 2023-present	Associate Professor	Reactor Safety & Accident Analysis, Applied CFD.	Dept. of Nuclear Engineering, DU
June, 2016-Mar. 2023	Assistant Professor	Reactor Safety & Accident Analysis, Nuclear Medicine	Dept. of Nuclear Engineering, DU
Feb. 2014- May, 2016	Lecturer	Nuclear Power Generation, Nuclear Fuel Cycle.	Dept. of Nuclear Engineering, DU.
Sep. 2017-Sep.2018	Lab Instructor (Reactor Physics)	-Determination of thermal neutron flux using Cf-252 neutron source. -Determination of neutron transport parameters.	Dept. of Nuclear Engineering, KTH-SWEDEN.
Sep. 2018-Sep. 2019	Graduate-Project Supervisor	Numerical-analysis-of convective heat transfer & crust formation in a volumetrically heated stratified molten pool.	Dept. of Mechanics, KTH-SWEDEN.

****Research experience**

-PhD Research: Severe Accident Research in Nuclear Power Reactor Pressure Vessel (RPV) lower head performing Experiment, Model development and Simulation. It aims to investigate & analyze corium behavior in the molten pool in terms of temperature & heat flux distribution and possible suggestions for migration strategy. This is conducted at **Swedish Royal Institute of Technology-KTH, Sweden**.

-M.Sc Research: Elemental analysis using Fast Readout Charge-Coupled Device (PnCCD) at **Institute of Nuclear Physics, Germany**.

-Research Experience at national level

Awarded Research Project	Title	Status
Centennial Research Grant (2020-2021), Dhaka University.	Analysis of thermal-hydraulic response of LWR Lower Head under transient formation of stratified melt pool by the application of Cartridge Heaters, Producing non-uniform decay heat.	Done
Advanced Research Grant (2021-2022), Ministry of Education.	Modelling & Numerical analysis of Nuclear RPV Lower Head Failure under severe accident conditions in a volumetrically heated stratified molten pool using corium simulant.	Done
DU-UGC Research Grant (2021-2022).	Numerical investigation of flow structure dynamics & heat transfer characteristics of superheated steam flowing through different 3-D angular piping bend configurations in Nuclear Power Installations.	Done
R&D Grant (2022-2023), Ministry of Science & Technology.	Thermal hydraulic analysis of turbulent flow of Supercritical Water through multiple configurations of 3-D angular piping bends.	Done

-Administrative experience:

Period	Designation	Organization
January 2020 to January 2023	Chairman	Department of Nuclear Engineering, Dhaka University.
January, 2021 to Present	House Tutor	FH Hall, Dhaka University.

-Experience in Industries:

Period	Industry	Designation
March, 2010-August, 2011	VOSTA.LMG BV, Amsterdam, NETEHRLANDS.	Project Manager
Nov. 2003- Feb. 2008	Bengal Telecommunication & Electric Corporation (pvt) Ltd, Bangladesh	Project Engineer

****Training received:**

Training Course	Duration	Location
Senior Management & Technical Reserve Talents for Nuclear Power Commissioning.	July 14-24, 2023	China , organized by Chinese ministry of commerce.
Experiment on Reactor operation (VR_1 VRABEC)	June 20-22, 2012	Czech Technical University, Prague, Czech Republic.
Industrial Training on Mechanical Engineering	September 16-October 19, 2003	Training institute for chemical industries- TICI , Norshindhi.
Operation & maintenance of Gas turbine (90 MW _e)	May 2002-August 2002	Ashuganj Power station company Ltd (APSCL)

****Additional activity:**

Committee member: Establishment of Research facility and Observation center for the emergency management of National Nuclear and Radioactivity, Atomic Energy Commission (AEC).

Membership: Fellow of Institution of Engineers, Bangladesh (IEB membership No M-40039).

****References**

***Professor Dr. Sevostian Bechta**

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Swedish Royal Institute of Technology-KTH, **Sweden.**
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***Professor Dr. Scherer**

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Aachen University of Applied sciences, Germany.
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