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# Jowaher Raza

Environmental Geoscientist & HSE Specialist

*M.S. (KFUPM), M.Sc. (DU), B.S. (DU), RSO (Saudi Aramco), HSE (Neebosh & IOSH)*

I am an Environmental Geoscientist with more than 18yrs experience. My technical background includes Environmental Management, EIA, GIS, IWRM, WASH, Geocelular Modeling, HSE, Disaster Management, and Reservoir Assessment. Professionally I have worked with UN, Saudi Aramco, King Fahd University, North South University, Swiss Red Cross, Pendion, Ch2M Hill, In'tltech, Regenesis, Fugro, Schlumberger, NeuraLog, Haliburton, Nukem, SABIC and so. I successfully achieved two research-based master's degree.



- **Years of Experience** – 18+ Years Overall Technical Experience including Academic Sector, Industry sector, and Development Sector in Cross-Functional Teams.
- **Areas of Expertise** – Environmental Assessment, GIS, Groundwater Studies & Modeling, HSE Management.
- **Academic Background** – Two Master Degrees in Geology with Research on Groundwater Contamination Assessment, Hydrochemical Modeling, and Risk & Vulnerability Assessment through GIS-based Interpretation.
- **Technical Interest** – Geocelular Modeling, Disaster Management, Interlinking Factors Influencing Climate Change, Environmental Vulnerability Assessment and Characterization, GIS, Geostatistics, Medical Geology.
- **Professional Aptitude** – Planning and Forecasting, Project Execution, Training and Mentoring of Junior Staff, Business Development & Management.
- **Teaching** – had instructor experience in King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia and North South University, Dhaka Bangladesh
  - Hydrogeology GEOL 401
  - Advanced Hydrogeology GEOL 561
  - Introduction to Geography
- **Laboratory Understanding** – Two Master Degrees in Geology with Research on Modeling, Hydrogeology, Risk & Vulnerability Assessment, and GIS Interpretation.
  - Analytical Work
    - CEW, RI Lab - Analysis of samples using ICPMS, spectrophotometer,
    - ESD Lab – WARD'S Groundwater Simulation System, Horiba Water Quality Monitoring System, High-Performance Sieve Shaker
  - Laboratory Instructor
    - Physical Geology (Geol 201)
    - Sedimentation and Stratigraphy (Geol 307).
    - Mineralogy and Petrography (Geol 402).

## PROFESSIONAL QUALIFICATIONS

- Environmental Management
- Reservoir Management
- Business / Project Management
- Internationalization Strategy

## PROJECT EXPERIENCE

Development					
Management					
Technical					
Co-ordinating					
Review					

## KEYNOTE SPEAKER AWARD



## PROFESSIONAL APPLICATIONS

GIS					
Rockware					
AqteSolver					
AquiferTest					
AerMOD					
GMS					
Canvas					
AutoCAD					
SketchUp					
NeuraLog Suite					
JOA (JewelSuite)					
Jason GeoSystems					
Petrel					
TerraStation					
PowerLog					
MS Project					
Primevrera					
MPMM					

## MEMBERSHIP

DUGAA	D U Geology Alumni Association
ISSP	Int. Society of Sustainability Prof.
SAWEA	SA Water Environment Association
WEF	Water Environment Federation
DGS	Dhahran Geoscience Society
SEG	Saudi Engineering Council
AAPG	American Ass. of Pet. Geologists
SEG	Society of Exploration Geophysics
GSA	Geological Society of America

## PERSONAL INTEREST

- Movies
- Chess
- Swimming
- Simulation Games
- Horse Riding
- Formula Racing

## REFERENCES

### Amitabh Sharma

Country Representative, Swiss Red Cross  
 amitabh.sharma@redcross.ch  
 (+880) 175 553 2493

### Dr. Kazi M Ahmed

Professor / Chairman, Dept. of Geol., Univ. of Dhaka  
 kmahmed@du.ac.bd  
 (+880) 171-846-840

### Robert E. Best

Senior Principal Expert, Noah Consulting  
 robertbest63@gmail.com  
 (+001) 832 689 3497

## Work Experience

- 2018- Adjunct Lecturer - ESM Department, North South University.
- 2018-2018 Program Coordinator - Swiss Red Cross (SRC), Bangladesh.
- 2012-2017 Business Dev. Manager / Technical Lead – AEP, Saudi Arabia
- 2009-2012 Geological Consultant - RCD, Saudi Aramco
- 2003-2009 Senior Geoscientist - ETS, Saudi Arabia
- 2001-2003 Geoscientist (Project Assignment) - Saudi Geophysical
- 2000-2003 Research Assistant - Earth Sciences Dept., King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia.

## Project Experience (Recent / Selected)

- Institutionalization of Integrated Water Resources Management (IWRM) in the Barind Area of Bangladesh  
 Client: Swiss Development Corporation
- Remediation and Restoration of Coastal Resources.  
 Client: UNCC / GAMEP
- Remediation of NORM Contaminated Land at Al-Midra & Reclamation, Dhahran (SFC ATP17-Remediation Work)  
 Client: Saudi Aramco
- HSE Evaluation and Environmental Impact Assessment of an Incinerator at Technical Innovation Center at Riyadh.  
 Client: SABIC
- Groundwater Modeling of Abar Al Mashi Aquifers.  
 Client: Madinah Municipality

## Certified Training (Instructor / Attended - Selected)

- Policy Analysis Course, Bangladesh Institute of Governance and Management (BIGM).
- Conflict Sensitive Program Management (CSPM), BRCS-DASCOH-SRC
- Radioactivity Safety Training, Saudi Aramco.
- NEBOSH International General Certificate, NEBOSH IGC.
- IOSH certification on Health & Safety for Professionals.
- Maritime Disaster Management, Ministry of Interior. KSA
- Geological Data Management, RCD, Saudi Aramco.

## Publications (Selected)

- Hassan, M. Q., Zahid, A. and Raza, J. (2018) An Overview of the Effect of Using Untreated Wastewater for Agriculture. The 1st International Conference on Challenges for Future Agriculture
- Abdulaziz Al-Shaibani and Md. Jowaher Raza, (2004). Influence of Wastewater Projects on Groundwater Quality in a shallow Aquifer, 4th Specialty Conference on Environmental Progress in the Petroleum and Petrochemical Industry
- Dr. Mahbub Hussain and Md. Jowaher Raza, (2002). Source Beds for the Mesozoic and younger Oils in Saudi Arabia: Constraints of Biomarker Applications, AAPG Conference, Houston, USA.

## Academic Background

- PhD (2017 - ) - Department of Geology, University of Dhaka
- MS (2003), Earth Sciences Department, King Fahd University of Petroleum & Minerals (KFUPM), Saudi Arabia.
- M.Sc. (1997) - Department of Geology, University of Dhaka
- B.Sc. (1995) - Department of Geology, University of Dhaka
- HSC (1990) - University Laboratory College, Dhaka, Bangladesh
- SSC (1988) - St. Joseph High School, Dhaka, Bangladesh.