

Curriculum Vitae

Asif Khan (PhD)

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Address: Mohalla Dewan Khel, Village & PO Lund Khwar, District Mardan, Khyber Pakhtunkhwa
Pakistan



Career Objective

- An enthusiastic, adaptive and fast-learning person with a broad and acute interest in environmental Pollution, I particularly enjoy collaborating with scientists from different disciplines to develop new skills and solve new challenges.

Academic Career

- Degree Name:** Doctor of Philosophy (PhD)
Specialization: Environmental Chemistry
Department: Department of Chemistry
Address: Abdul Wali Khan University Mardan, KPK, Pakistan
Session: 2016-2021
Subjects: *Spectral Identification of organic compounds, Advance Chemical Kinetics, Advanced Molecular Spectroscopy, Nuclear Methods of Analysis, Physical Chemistry of Polymer, Electro Analytical techniques, Bio Inorganic Chemistry, Environmental Chemistry*
- Degree Name:** M. Phil/Master of Sciences
Specialization: Environmental Sciences (Water Sanitation Health and Development)
Address: Comsats Institute of Information Technology, Abbottabad, KPK
Session: 2009- 2011
Subjects: *Sustainable Sanitation-Ecological Engineering for waste Management, Water Supply Engineering and Management, Water and Wastewater Treatment, Soil Sciences, Water Chemistry & Microbiology, Society & Development, Post Disaster Water & Sanitation Management, Society & Development, Health, Environment & Development, Technology Development, Gender & Culture, Designing & Implement water, Sanitation & Public Health Policies.*
- Degree Name:** Bachelor of Education (B. Edu)
Specialization: Education
Address: Allama Iqbal Open University Islamabad
Session: 2017- 2018
Subjects: *General Methods of Teaching (Professional), Educational Assessment and Evaluation (Professional), Curriculum Development (Foundation), Research Methods in Education (Professional), Educational Leadership and Management (Professional), Citizenship Education and Community Engagement, Teaching Practice I (Professional), Teaching Practice II (Professional), Philosophy of Education (Foundation), Human Development and Learning (Foundation), Critical Thinking and Reflective Practices (Professional), Professionalism in Teaching (Professional), Research Project (Content Embedded) (Professional), Educational Statistics (Professional), Higher Education, Elementary Education, Teacher Education in Pakistan, Secondary Education.*

4. Degree Name: Bachelor (4 years) in Environmental Sciences
 Specialization: Environmental Sciences
 Address: University of Peshawar, KPK
 Session: 2004- 2009
 Subjects: *Environmental Microbiology, Natural Resource Management, Environmental Impact Assisment, Organic Chemistry, Soil Chemistry, Botany, Applied Ecology, Pollution Control Technology, Environmental Chemistry, Policy and Planning, Research Methodology, Remote Sensing, Soil Sciences Pollution Monitoring Techniques, Environmental Biotechnology.*
5. Degree Name: Engineering
 Level Attained: Chemical Technology
 Address: Government College of Technology Kohat Road Peshawar, KPK
 Session: 1999- 2002
 Subjects: *Industrial Chemical Process, Unit Operation, Environmental Chemistry, Safety and Precautions measurement, Mathematic, Instrumental Method of Analysis, Chemical Engineering, Industrial management and Human Relation, Business Communication, Applied Physics, Energy Conservation and Pollution, Quantitative Analysis.*
6. Diploma Name: NEBOSH
 Specialization: Health Safety and Environment
 Address: Safety Plus Training International (SPTI), Shergarh, Mardan
 Session: June 2022
 Subjects: *Principal Legal Requirements, Reporting Recording and Investigation of Injuries Diseases and Dangerous Occurrences, Principals of Accidents Preventions, Ergonomics, Occupational Health, Healthy and Safety Management, Human Factors, Stress at Work, First Aid, Risk Assessment, Work at height.*
7. Diploma Name: Managing Safely- IOSH
 Specialization: Health Safety and Environment
 Address: Safety Plus Training International (SPTI), Shergarh, Mardan
 Session: June-2020
 Subjects: *Principal Legal Requirements, Reporting Recording and Investigation of Injuries Diseases and Dangerous Occurrences, Principals of Accidents Preventions, Ergonomics, Occupational Health, Healthy and Safety Management, Human Factors, Stress at Work, First Aid*
8. Certificate Name: Higher Secondary School Certificate
 Level Attained: Sciences Group
 Address: Baizai Public High School Lund Khwar, Mardan, KPK
 Session: 1999
 Subjects: *Physics, Chemistry, Biology, Maths*
9. Certificate Name: Software Application
 Level Attained: MS-Office Automation
 Address: Postal Information Technology Center Peshawar, KPK
 Session: 2002
10. Certificate Name: Hardware Application
 Level Attained: Hardware (A++)
 Address: Institute of Computer and Study, Lund Khwar, Mardan, KPK
 Session: 2009
11. Certificate Name: Global Information System (GIS)
 Address: HARIS Institute Rawalpindi
 Session: 2018

12. Certificate Name: The COSHH Risk Assessor Certifications
Address: The KNIGHTS of SAFETY
Session: 2019
13. Certificate Name: ISO 9001:2015 Quality Management System Foundations
Address: The KNIGHTS of SAFETY Academy
Session: 2019
14. Certificate Name: ISO 14001:2015 Environmental Management System Awareness
Address: The KNIGHTS of SAFETY Academy
Session: 2020
15. Certificate Name: ISO 45001:2018 Occupational Health & Safety Management System Awareness
Address: The KNIGHTS of SAFETY Academy
Session: 2020
16. Certificate Name: ISO 50001:2018 Energy Management System Awareness
Address: The KNIGHTS of SAFETY Academy
Session: 2020
17. Certificate Name: Personal Protective Equipment (PPE)
Address: The KNIGHTS of SAFETY Academy
Session: 2020
18. Certificate Name: COSHH Hazard Communication Awareness
Address: The KNIGHTS of SAFETY Academy
Session: 2020
19. Certificate Name: Health and Safety Induction
Address: The KNIGHTS of SAFETY Academy
Session: 2020

Experience

1. **Monitoring Teams**
“World Health Organization- Polio Team Mardan”
December 2021 – Till Now, Mardan, Khyber Pakhtunkhwa, Pakistan
2. **Health Safety & Environmental**
“Gurya Oil Industry”
December 2020 – November 2021 (11Months), Industrial area Hayat Abad, Peshawar
3. **Research Associate** (Pak-USA Project)
“Department of Chemistry, Abdul Wali Khan University Mardan”
September 2016 – November 2020 (4.2 years), Mardan, Khyber Pakhtunkhwa, Pakistan
4. **Project Coordinator (as a Consultant)**
“Consulting Group of Economics, Education and Management Combined Organization” (CEMCO)
December 2012 – February 2016 (3.2 years) Peshawar, Khyber Pakhtunkhwa, Pakistan
5. **Safety Supervisor**
“Asco Steel Sdn. Bhd.” (ASCO)
June 2014 – August 2014 (3 months), Kuala Lumpur, Malaysia
6. **Water Sanitation and Environmental Officer**
WaterAid and Europe Union Commission
September 2012 – December 2013 (1.3 years), Mardan, Khyber Pakhtunkhwa, Pakistan
7. **Environmental Officer**
Integrated Regional Support Program (IRSP)
October 2011 – September 2012 (1 year), Mardan, Khyber Pakhtunkhwa, Pakistan
8. **Monitoring and Evaluation officer**
Environmental Protection Agency (EPA)
February 2010 – August 2011 (1 year 7 months), Abbottabad, Khyber Pakhtunkhwa, Pakistan
9. **Water Sanitation and Health Officer**
Human Development Organization Doaba (HDOD)
March 2009 – December 2009 (10 months), Mardan, Khyber Pakhtunkhwa, Pakistan
10. **Environmental Officer**
Integrated Regional Support Program (IRSP)
March 2006 – November 2008 (2 years 9 months), Mardan, Khyber Pakhtunkhwa, Pakistan
11. **Water Quality Analyst**
Pakistan Council of Sciences and Industrial Research Peshawar (PCSIR)
March 2007 – November 2007 (9 months), Peshawar, Khyber Pakhtunkhwa, Pakistan
12. **Assistant Chemist**
Gull Cooking Oil & Vegetable Ghee Mill (Pvt) Ltd
May 2002-August 2003 (1.7 years), Dargai, Malakand, Khyber Pakhtunkhwa, Pakistan

Workshops & Training Attended

1. Trained on “Environmental Health In Emergencies” from World Health Organization
2. Training of Master Trainers on “Alternatives to Corporal Punishments in School” Building Bridges
3. Trained on “Community-Led Total Sanitation (CLTS)” from IRSP and WaterAid Joint Program
4. Trained on “Bio-Sand filter” in Comsats Institute of Information Technology, Abbottabad

Certificate and Awarded

1. Pakistan – United States Science and Technology Cooperation Program
2. “International program funded by the Norwegian Government and is operated by COMSATS Institute of Information Technology, Abbottabad”
3. “28th National and 16th International Chemistry Conference on Chemistry and Global Challenges”
4. “Appreciation Certificate” from Camp In-charge, Jalala IDPs Camp, Mardan
5. “Letter of Recommendation” from Camp In-charge, Jalala IDPs Camp, Mardan
6. “Legal Education for CSOs On woman and Child Rights”, by WASFD Organization
7. “Risk Assessment Training” arranged by Safety Plus Training International (SPTI), Shergarh, Mardan.
8. “Work at height Training” arranged by Safety Plus Training International (SPTI), Shergarh, Mardan.

Interest & Activities

- Plantation
- Sports
- Reading Books
- Computer
- Soft wares
- Internet

Computer Skills

- MS Word, MS PowerPoint, MS Excel
- Internet & Web surfing
- Window98, Window XP, Window2000, Window7
- Hardware (A++)

Key Responsibilities as HSE

- Work with the HSE Manager to implement and monitor the health, safety & environmental management systems
- Involved in organizing and conducting HSE-related activities, trainings and preventive
- Programmers to create awareness among employees.
- Support in planning, coordinating and implementation of site safety, occupational health
- Environmental, fire prevention, emergency response and security management issues.
- Undertake other HSE-related projects/activities as required.
- Hazard Identification and Risk Assessment.
- To prepare the plan for Ambulance Mobilization in case of “Emergency”.
- To prepare the plan for placement of “Fire Fighting Equipment”.
- To participates in preparation of “HSE Plan

Skills

- Flexibility
- Teamwork
- Leadership skills
- Computer literacy
- Human Relation skills
- Planning and organizing
- Prioritizing work management
- Attention to detail and Accuracy
- Training / Coaching / Presentation Skills
- Small, vessel inspection according to IMO
- Communication skills - Written and verbal
- Conceptual, Analytical and problem solving skills
- Working knowledge in safety-related legislation and legal obligations
- Identify and deal with harmful and dangerous situations especially in the construction industry.
- Familiar with lifting operations, scaffolding work; preparation of training modules for Induction training, training for different trades like a rigger, crane operator, scaffolder etc.

Research Topics

- Assessing The Causes Of Groundwater Nitrate Pollution In The Arid And Semi Arid Areas Of Khyber Pakhtunkhwa, Pakistan (**PhD Research Topic**)
- Evaluation of Water Quality and Health Issues Associated With Pit Latrines in the Rural Area of District Charsadda (KPK, Pakistan) (**Master Research Topic**)
- Evaluation of Drinking Water Quality of Lund Khwar, Tehsil Takht Bhai, District Mardan (KPK, Pakistan) (**Bachelor Research Topic**)

Final Year Engineering Project

- Chemical Analysis in Charat Cement Factory, Khyber Pakhtunkhwa

Internship

- Internship in Pakistan Council of Scientific and Industrial Research (P.C.S.I.R) Lab: on Water Analysis

Language

| | Read | Write | Speak |
|----------------|-----------|-----------|-----------|
| English | Excellent | Excellent | Excellent |
| Urdu | Excellent | Excellent | Excellent |
| Pashto | Excellent | Excellent | Excellent |

1. Mr. Asif Khan and Dr. Muhammad Irshad “Evaluation of Water Quality and Health Issues Associated with Pit Latrines in the Rural Area of District Charsadda”. *4th International Conference on "Environmentally Sustainable Development (EsDEV)" July 24, 2011*
2. Noor Faraz, Muhammad Balal Arain, Nasrullah Shah, Hameed Ul Haq, Asif Khan, Muhammad Saad, Safi Asim Bin Asif “Development of Deep Eutectic Green Solvent Micro Extraction Method for Trace Analysis of Nicolsamide.” *30th National & 18th International Chemistry Conference on Recent Trends in Chemistry- CCUMT-2019*
3. Mohammad Naeem, Zifeng Yan, Fazle Subhan, Atta Ullah, Sobia Aslam, Mohammad Ibrahim, Momin Khan, Nasrullah Shah, Dilawar Farhan Shams, Asmat Ullah, Abbas Khan, Saleem Ullah, Amir Zada, Inamullah, Muhammad Haris, Asif Khan. Effective performance of CeO₂ based silica for preparation of octanal. *Journal of Porous Materials*, 2020
4. Noor Faraz, Hameed ul Haq, Muhammad Balal Arain, R. Castro Munoz and Asif Khan, “Deep Eutectic Solvent based Method for Analysis of Nicolsamide in pharmaceutical and wastewater samples- a green analytical chemistry approach”. *Journal of Molecular Liquids*, 2021
5. Khan, Asif; Naeem, Muhammad; Zekker, Ivar; Arianc, Muhammad Balal; Michalski, Greg; et al (2021). Multivariate statistical analysis of heavy metals and physico-chemical parameters in the groundwater of Karak District, Khyber Pakhtunkhwa, Pakistan. *Proceedings of the Estonian Academy of Sciences. Chemistry*, 3 (X, X), XX–XX. [DOI: 10.3176/proc.2021.3.08](https://doi.org/10.3176/proc.2021.3.08)
6. Khan, A., Naeem, M., Balal, M. et al. Assessing the physico-chemical parameters and some metals of underground water and associated soil in the arid and semiarid regions of Tank District, Khyber Pakhtunkhwa, Pakistan. *Environ Monit Assess* 193, 610 (2021). <https://doi.org/10.1007/s10661-021-09370-x>
7. Asif Khan, Muhammad Naeem, Ivar Zekker, Muhammad Balal Arian, Greg Michalski, et al. (2021) Evaluating groundwater nitrate and other physicochemical parameters of the arid and semi-arid district of DI Khan by multivariate statistical analysis, *Environmental Technology*, [DOI: 10.1080/09593330.2021.1987532](https://doi.org/10.1080/09593330.2021.1987532)
8. Fazal Elahi, Muhammad Balal Arian, Wajid Ali, Greg Michalski, Hameed ul Haq, Asif Khan et al. (2021). Ultrasound-assisted deep eutectic solvent-based liquid-liquid microextraction for simultaneous determination of Ni (II) and Zn (II) in food samples. *Food Chemistry* 393(1):133384. DOI: [10.1016/j.foodchem.2022.133384](https://doi.org/10.1016/j.foodchem.2022.133384)

References

1. Dr. Muhammad Naeem
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