



# Abdul Wahab Haroon

Assistant Manager Lab QA & Calibration R&D

Seeking for employment in the Industrial & Educational sector where I can put my technical expertise to use and establish a long-term career, where I have found my biggest passion.

## CONTACTS



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## EDUCATION

### MPhil Chemistry (Analytical/Inorganic)

Quaid-i-Azam University Islamabad

CGPA 3.5

2016-2018

### BS CHEMISTRY

University of Gujrat

2011-2015

### Fsc Pre Engineering

PCIT, B-1372, S/Town Rawalpindi

2009-2011

## Courses Studied in MPhil

- Analysis and Characterization of Polymer
- Organo-Transition Metal Chemistry
- Bio-Inorganic Chemistry
- Physical Methods in Inorganic Chemistry
- Inorganic Electronic Spectroscopy
- Kinetics and Mechanism of Inorganic Reactions
- Inorganic Material Chemistry
- Catalysis

## WORK EXPERIENCE

### Assistant Manager Lab R&D Projects

17/01/2023 – Present

#### Public Sector Organization

- GCMS, Thermogravimetric Analysis for polymers, Differential Scanning calorimeter, Atomic Absorption Spectrometer, Differential Mechanical Analysis, Infrared Spectroscopy, universal tensile testing machine, Karl Fischer Titration, Vapor pressure osmometer using these instruments for R&D testing projects.
- Active participation in lab activities, data handling and timely reporting
- Research and Development skills
- ISO Accreditation of the laboratory and working as per ISO 17025:2017
- Report formation and working use on LIMS (Laboratory Information Management System)

### Assistant Manager Lab QA & Calibration Unit 17/06/2019 – 16/01/2023

#### Pakistan State OIL

- RON Analyzer, Sulfur analyzer ASTM D-4294, Density ASTM-1298, Calorimeter ASTM D-1500, Distillation (Manual and Automatic ASTM D-86), Saybolt chromometer ASTM D-156, Kinematic Viscosity ASTM D-445, PMCC Flash Point (Manual and Automatic ASTM D-93), Abel Cup Flash Point IP-170, Dean Stock Method ASTM D-95, Reid Vapor pressure ASTM D-323, Cloud and Pour Point ASTM 2500, ASTM-97 by following the ASTM and IP methods
- Active participation in lab activities, data handling and timely reporting
- Perform R&D of fuels and testing of products as per defined ASTM&IP methods/procedures.
- Perform calibration, standardization, and optimization of all analytical instruments.
- Make implementation and assure compliance of HSE rules/ operation activities as per SOPs, manuals, and procedures.
- Managing lab activities, data handling and timely reporting
- Can easily test light and heavy fuels like PMG, HSD, LDO, SKO products by following the methods of ASTM and IP.
- Research and Development skills
- Calibration of different laboratory equipment's
- ISO Accreditation of the laboratory and working as per ISO 17025:2017
- Report formation and working use on LIMS (Laboratory Information Management System)

### Laboratory Researcher HEC Project

01/2018 - 01/2019

#### Quaid-i-Azam University, Islamabad

- Mphil Project "Synthesis and characterization of Transition metal complexes as water oxidation catalysts"

### Lecturer Chemistry

09/2018 - 06/2019

#### Pakturk International College ChakShehzad Campus, Islamabad

- Taught chemistry to 11th and 12th standard.
- **Topics included for 11th standard:** Stoichiometry, States of matter, Electrochemistry, Thermochemistry, Chemical equilibrium, Chemical kinetics, Solution and Colloidal and Theories of Covalent bonding.
- **Topics included for 12th standard:** Chemistry of s, p, d and f blocks elements, Introduction to Organic chemistry, Environmental chemistry, and Spectroscopic techniques.
- Designed course materials including study problems and exams.
- Built relationships with students that demonstrated an open concern and a sense of responsibility for students academic and personal growth.

## CERTIFICATES

- Certificate Seminar on Chem-Bio Threat & Response in NCP Quaid-i-Azam university Islamabad (June 26-27, 2024)
- 3rd International conference on "Recent Trends in Chemistry" (23-24, November **2017**) Department of Chemistry, Allama Iqbal Open University
- USAID International Conference on Sustainable Energy Technologies at Serena Hotel, Islamabad (Sep. 12 - 13, 2017)
- Certificate for Global Chemist Code of Ethics & Laboratory Safety and Security in Quaid-i-Azam university Islamabad
- Attended more than twenty Ph.D. and M.Phil. Based seminars regarding research work taking place at Chemistry Department Quaid-i-Azam University Islamabad.
- 3<sup>rd</sup> National workshop on "GLOBAL GENES CODE OF ETHICS" (July 2<sup>nd</sup>, 2018)

## ACHIEVEMENTS

- Got a **MPhil Level Full Scholarship** from **THE PUNJAB EDUCATIONAL ENDOWMENT FUND (PEEF)** in Quaid-i-Azam University Islamabad
- Got a laptop from Chief Minister of Punjab Government, **Mian Muhammad Shahbaz Sharif Youth Initiative Scheme** on a Merit base.
- Got an Internal Merit scholarship in BS Chemistry from TFP
- Got a Kingship Scholarship in Punjab College of Information B-1372, S/Town Rawalpindi
- Throughout the First Division in Academic Career
- Always Participate in the Extra Co-Curricular Actives

## SKILLS

- NMR
- FLASH POINT & ABEL CUP
- UV-VIS
- IR
- GCMS
- SULPHUR ANALYZER
- VISCOMETER
- REID VAPOR PRESSURE
- LIMS
- COLORIMETER
- COLOR COMPARATOR
- CLOUD & POUR POINT
- DISTILLATION

## Lecturer Chemistry (Visiting)

2015 – 2016

### Paigham college of science and commerce, Rawalpindi

- Tutored inorganic and organic chemistry, analytical chemistry, physical chemistry.
- Regularly performed experiments and taught students how to replicate the experiments under safe conditions.
- Communicated effectively, both orally and in writing, with students and parents.
- Developed and maintained student's interest in chemistry by organizing various classroom activities.
- Contributed to the selection of materials, both theory and practical.
- Collaborated with other Science Departments for projects, curriculum enhancement, experiments, and lesson design.

## MPhil Thesis Research Dissertation/Experience

*Synthesis and characterization of transition metal complexes as their application in water oxidation catalysts.*

- The development of catalysts for water oxidation/ reduction is a major challenge for the production of O<sub>2</sub> and H<sub>2</sub> as renewable fuels.
- The need of catalysts is particularly crucial for the water oxidation reaction, which is the highly kinetically demanding reaction of the overall process.
- Focused on the synthesis and characterization of different Ru-based molecular WOCs in order to understand their behavior during the catalytic cycle of water oxidation.
- Formation of active electrodes for water oxidation and particular attention has been paid to the analysis of the active species on the surfaces and the modification of the electrodes during water oxidation.

## CERTIFICATES

- 2nd national workshop on chem-bio safety & security-Rish Management & response 3-5 Dec,2024 Avicenna medical complex Islamabad
- Need and best practices on chemical safety and security management PINSTECH ISLAMABAD 29-31 oct 2024

## Publication

- "Activating design of tunable CuCo<sub>2</sub>O<sub>4</sub>@NiMnO<sub>3</sub> heterostructure towards superior oxygen evolution reaction"

We are delighted to let you know that the above submission, which you co-authored, has been accepted for publication in Journal of Sol-Gel Science and Technology (Paper Accepted on 8 Dec,2024)

## LANGUAGES

- English- Proficient
- Urdu- Native
- Punjabi - Intermediate