



Hammad Tayyab

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ABOUT ME

A dedicated and results-driven professional with an MS degree in Chemistry and over 3 years of experience in chemical research, teaching and laboratory analysis. Proficient in operating advanced lab instruments (HPLC, GC, AAS, SEM, FT-IR) with a strong focus on accuracy, documentation, and continuous improvement. Eager to thrive in a fast-paced environment, contributing to organizational success while advancing my career in laboratory analysis.

EDUCATION AND TRAINING

MS Chemistry 02/2021 – 03/2023 CGPA: 3.44 / 4.00

COMSATS University (Lahore Campus), Islamabad, Pakistan

BS Chemistry 10/2015 – 06/2019 CGPA: 3.70 / 4.00

Bahauddin Zakariya University, Multan, Pakistan

Higher Secondary School Certificate (HSSC) - Marks: 914/1100 (83%) [09/2013 – 09/2015]

District Public School & College, Okara - Board of Inter & Secondary Education, Sahiwal, Pakistan

Secondary School Certificate (Matriculation) - Marks: 957/1050 (91.14%) [04/2011 – 07/2013]

Falcon Public School, Okara, – Board of Intermediate & Secondary Education, Sahiwal, Pakistan

WORK EXPERIENCE

Allied School, Okara, Pakistan

High School Teacher - Jan 2025 to Jul 2025

- Teaching Chemistry and Science subjects through developing effective lesson plans.
- Deliver curriculum-based Chemistry lessons and supervise lab activities.
- Evaluate student progress, maintaining accurate records and communicating results with parents and staff.

B.M.A Pharma, Okara, Pakistan

Lab Assistant - Jul 2024 to Dec 2024

- Conducted QC tests on pharmaceutical products ensuring compliance with GMP and regulatory standards.
- Execute raw material, in-process, and finished product testing.
- Sample Handling – Assist in collecting, labeling, and storing samples properly.
- Record Keeping – Maintain logs, inventory, and document test results accurately.
- Safety Compliance – Follow safety protocols and ensure a clean and hazard-free lab environment.

Interdisciplinary Research Center in Biomedical Materials, COMSATS University, Lahore, Pakistan

Research Assistant - Apr 2023 to Jun 2024

- Conducted research, data analysis, and prepared detailed reports.
- Data Collection & Analysis – Assist in collecting, organizing, and analyzing research data.
- Ensured compliance with research protocols and data integrity.
- Maintained laboratory equipment and followed ISO and quality standards in research practices.
- Foreign research tour:** Visited University of Hacettepe, Ankara, Turkey (2023) for working on joint cutting-edge research project under PSF-TUBITAK: Translating Smart Design V-Patch for Vesico-vaginal Fistula Repair: Bench-top to Clinical Application

Lab Analyst - Jul 2019 - Dec 2020

- Conducted chemical, biological, and physical testing on raw materials, in-process, and finished bakery products.
- Implemented HACCP, GMP, and ISO 22000 standards in daily quality operations.
- Prepared and maintained QC documentation, quality reports, and compliance records.
- Monitored product quality, shelf-life testing, and consistency during production stages.
- Equipment Calibration – Operate, maintain, and calibrate lab instruments for precise testing.

PROJECTS

Research Projects

- Development of Angiogenic and Antibacterial Double Layer Microneedle Patches as a Potential Candidate for the Repair of Vesico-vaginal Fistula
- Silver Doped Zinc Oxide Nanoparticles Encapsulated Freeze Dried Chitosan/Gelatin Membrane for Eradication of Biofilm
- A review of the Design and Development of Chitosan and Metallic Nanoparticles based Composite Material for the Stimulation of Angiogenesis to Accelerate Skin and Bone Tissues Regeneration

CONFERENCES AND SEMINARS

Conferences

- International Conference on Material Science and Technology (March 2020) by The University of Faisalabad, Pakistan
- International Workshop on Conducting Clinical Trials in Pakistan - Design and Data Interpretation (Jan 23- Jan 25, 2023) COMSATS University, Islamabad, Pakistan

Webinar

- Certificate of webinar Laboratory Quality Control (Sep 2021) by CSQ Analytics, Sdn Bhd, Malaysia
- Certificate of webinar Glassware Production Process and Safe Handling of Laboratory Glassware (Nov 2021) by CSQ Analytics, Sdn Bhd, Malaysia

HONOURS AND AWARDS

Academic Excellence Award from my Bachelor University

Certificate of Appreciation (Non-academic) Sports Gala at my Bachelor University.

SKILLS

General Laboratory Skills

Knowledge of ISO/IEC 17025, HACCP, Quality Control, ISO 9001, Scientific Documentation, Experimental Data Management, Lab Safety (Personal Protective Equipment)

Laboratory Analytical Skills

HPLC, GC, SEM, FT-IR, pH / TDS / Conductivity Meter, Preparation of Solutions, Potentiometer, Compound & Salt Analysis, Titration methods, Spectrophotometer, Equipment Calibration.

IT Skills

ChemDraw, EndNote, Adobe Illustrator, Gaussian, Canva, MS Office (Word, Excel, Outlook).

LANGUAGE SKILLS

Mother tongue(s): Urdu

Other language(s): English IELTS Score 6.5 Bands (Paper Based) – March 2023