



# Seeqal Aleena

📍 **Home** : Rawalpindi Pakistan, 13100, Muzaffarabad, Pakistan

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🌐 **LinkedIn**: <https://www.linkedin.com/in/seeqal-aleena-a81568196>

**Gender**: Female **Date of birth**: 28/10/1999 **Nationality**: Pakistani

## EDUCATION AND TRAINING

[ 07/11/2025 – Current ] **Mphil in Biomedical Engineering**

*Islamic University Rawalpindi*

**Field(s) of study**: Biomedical Engineering

[ 05/10/2019 – 20/07/2023 ] **Bachelors in Biochemistry**

*Pmas Arid Agriculture Rawalpindi*

| **Final grade**: 3.56/4.00 | **Thesis**: Hyper Production of Glucoamylase through Solid State Fermentation by *Aspergillus Niger* using Rice Straw

- Biochemical analysis and laboratory techniques
- Protein purification and characterization
- Spectroscopy and chromatography techniques

[ 07/08/2017 – 24/06/2018 ] **FSC Pre Medical**

*Punjab Collage for Women Rawalpindi*

**Field(s) of study**: Biology, Physics, Chemistry | **Final grade**: A+

[ 12/03/2014 – 23/07/2015 ] **Matric**

*Army Public School Garhi Dupatta*

## WORK EXPERIENCE

*Alhuda High School Rawalpindi*

**City**: Rawalpindi | **Country**: Pakistan

[ 15/03/2023 – Current ] **Secondary school Teaching Assistant**

- Educating students on lab safety and ensuring all experiments are carried out responsibly.
- Organizational skills for managing laboratory materials and resources.

*SKBZ Combined Millitary Hospital Muzaffarabad*

**City**: Muzaffarabad

[ 12/07/2021 – 22/09/2021 ] **Scientific laboratory technician**

- Conduct laboratory tests and experiments to assist medical professionals in diagnosing and treating patients.
- Collect and prepare patient samples, such as blood, urine, or tissue specimens, for analysis.
- Operate and maintain laboratory equipment, ensuring accuracy and reliability of results.

## PUBLICATIONS

**Kashif, M., Ali, M., Naz, S., Amir, J., Murad, S., Atif, M., ... & Khan, M. Y. (2024).**

**Formulation development and characterization of quercetin loaded poly**

[ 2023 ] **caprolactone nanoparticles for tumors. Brazilian Journal of Science, 3(2), 82-92.**

[ 2024 ] [Jamal, M., Nabi, G. A. K., Sun, H., Ullah, K., Khattak, O. A., Kashif, M., ... & Masood, A. \(2024\). Preparation of Manganese-Doped Bismuth Oxide for the Photocatalytic Degradation of Methylene Blue. Archives of Advanced Engineering Science, 1-7.](#)

[ 2024 ] [Synthesis of Iron Oxide Nanoparticles and its Antimicrobial, Anticancer, Anti-inflammatory, Wound Healing, and Immunomodulatory Activities -A Review](#)

[ 2025 ] [Bismuth Vanadate Nanoparticles: Structure, Synthesis, and Emerging Engineering Applications](#)

## SKILLS

Microsoft Word | Microsoft Powerpoint | Computer typing speed up to 40 wpm

## COURSES

Certificate of Ielts Writing Section Skills Mastery by University of California Irvine

Link: <https://coursera.org/share/7b4b833fde28addf324841c53cf7805f>

The Science of Stem Cells by American Museum of Natural History

Link: <https://coursera.org/share/6a907af081a39c4a983f1df4ff9c86af>

Managing Emotions in Times of Uncertainty and Stress by Yale University

Link: <https://coursera.org/share/b4196f926dd298760e299dd37e53a893>

Chinese for Beginners by Peking University

Link: <https://coursera.org/share/eaffb6187092e4f46111e9e08edd393b>

The Science of Well Being by Yale University

Link: <https://coursera.org/share/51be9b5d31485fbc799c325d2227ed20>

Understanding the Brain by University of Chicago

Link: <https://coursera.org/share/efcf3587d1fe63b5297cdcf3a78585e8>

How to Write and Publish a Paper by Ecole Polytechnique

Link: <https://coursera.org/share/660347bcb1e8d096a1f3fe34e9dc7281>

Drug Discovery by University of California

Link: <https://coursera.org/share/2835b664efdf0afa6a43de48c36727b1>

## WORKSHOPS AND SEMINARS

A two days (22-23 September 2020) training workshop on "Experimental Design, Data Analysis and Report Writing"

▲Workshop on Sustainable Agriculture Water Management in a Changing Environment at PMAS arid University on September 30 to October 02, 2015.

▲Workshop on "Integrated Disease Management" commenced at Pir Mehr Ali Shah Arid Agriculture University Rawalpindi (PMAS AAUR), on June 7, 2021.

▲A two days (October 21-22, 2020) First Aid training was held at Pir Mehr Ali Shah Arid Agriculture University Rawalpindi

Awareness seminar on Dengue Prevention and Control at PMAS Arid University on September 24, 2020,

▲International Essay Contest for Young People Japan 2020

▲Workshop on Women Empowerment by Indu's Academy of Brilliant Minds on 8th March 2023

▲Online Essay Writing Workshop by PMAS Arid University on 24th August 2022

▲Participant in Multidimensional International Research Conference on 9th October 2022

## RESEARCH INTEREST

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Biochemistry

Immunology

Biotechnology

Industrial Biotechnology

Enzymology

Genetics

Molecular Biology

Protein Chemistry

## HOBBIES AND INTERESTS

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Book Reading , Love Traveling , Reading Newspaper ,Moral Ethics

I Love these hobbies specially travelling & Book readings

## VOLUNTEERING

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•Million Smiles Foundation/ Social Welfare Trust 2019 [ Islamabad ] Organization

Offered basic education for illiterate people to understand a culture, their role in society, and how to become a good citizen.

## MANAGEMENT AND LEADERSHIP SKILLS

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Leadership

Served as Ambassador  
and Team lead of Million Smiles Foundation, Events Organizer in School

## LANGUAGE SKILLS

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**Mother tongue(s):** Urdu

**Other language(s):**

**English**

**LISTENING B2 READING B2 WRITING B2**

**SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2**

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## RECOMMENDATIONS

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**Name: Dr.Feeroza Hamid Wattoo** Associate Professor

Organization:

PMAS Arid Agriculture University Rawalpindi

**Email:** [drfhwattoo@uaar.edu.pk](mailto:drfhwattoo@uaar.edu.pk)

**Name: Dr M.Sheeraz Ahmad** Associate Professor

Organization:

PMAS Arid Agriculture University Rawalpindi

**Email:** [dr.sheeraz@uaar.edu.pk](mailto:dr.sheeraz@uaar.edu.pk)

**Name: Dr Bilal Muhammad Khan** Assistant Professor

Organization:

PMAS Arid Agriculture University Rawalpindi

**Email:** [dr.bilal@uaar.edu.pk](mailto:dr.bilal@uaar.edu.pk)