

Muhammad Awais (Lecturer; Seed Scientist; Plant Breeder)

Village # 171/9-L, Tehsil Chichawatni, Dist. Sahiwal, P. O. Box Ghaziabad (57210), Pakistan

+92-306-1190955 | awais.sst@uaf.edu.pk

<https://www.linkedin.com/in/muhammad-awais-2012/>

CORE STRENGTHS

- Seed Sampling and Testing
- Crop Field Inspection
- Seed Viability & Vigour Tests
- Excellent Communication
- Team Management
- Variety Registration and Protection
- Seed Packaging and Storage
- Seed Quality Regulation
- Plant Breeding
- Variety Development
- DUS Trials Conducting
- Seed Act Enforcement
- Laboratory Analysis
- Statistics Analysis
- Time Management

CAREER SUMMARY

As an experienced Seed Scientist with about 5 years of experience in the public and private sectors, I have significantly contributed to seed quality assurance, regulatory enforcement, and research. Notable achievements include strengthening the DUS Examination System for crop variety registration, vigorously enforcing seed regulations, conducting comprehensive field inspections, seed sampling and testing. I have developed 10 high-yielding dual-purpose (cereals & forage) crop varieties. My PhD in Seed Science and Technology focused on post-harvest oilseed storage and high-yield fodder crop breeding, and I have authored research in 9 articles on various aspects of seed science. Passionate about bolstering food security through robust seed systems, I am an adaptable and driven professional continuously seeking to drive progress in seed technology while staying updated with current events and enhancing my knowledge through training.

WORK EXPERIENCE

University of Agriculture, Faisalabad <i>Lecturer in Seed Science and Technology (BS-18)</i>	Faisalabad, Pakistan Nov 2024 to date
Plant Breeders' Rights Registry, M/o National Food Security and Research <i>Examiner; Seed Inspector (BS-17)</i>	Islamabad, Pakistan May - Nov 2024
Federal Seed Certification and Registration Department, M/o National Food Security and Research Project Title: Establishment of Plant Breeders' Rights Registry and Strengthening of DUS Examination System <i>Seed Analyst; Seed Inspector (PPS-7)</i>	Funded by: Public Sector Development Program Jan 2022 to May 2024 Rahim Yar Khan, Pakistan
Federal Seed Certification and Registration Department, M/o National Food Security and Research Project Title: Establishing Online Linkages of Federal Seed Certification & Registration Department with WeBOC System of Pakistan Customs <i>Seed Inspector (PPS-7)</i>	Funded by: Public Sector Development Program July 2019 – June 2020 Lahore, Pakistan
Alam Cotton Mills Pvt. Limited (Agriculture Farm) <i>Agriculture Officer</i>	March 2018 – April 2019 Lahore, Pakistan
Federal Seed Certification and Registration Department, M/o National Food Security and Research <i>Internship</i>	Feb 2016 – May 2016

EDUCATION

University of Agriculture, Faisalabad Doctor of Philosophy in Seed Science and Technology <ul style="list-style-type: none">• Thesis Title: Post-Harvest Storage Technologies to Maintain Quality of Oilseeds	Faisalabad, Pakistan 2020 to date <i>*Thesis submitted</i>
University of Agriculture, Faisalabad Master of Science Honors in Seed Science and Technology <ul style="list-style-type: none">• Thesis Title: Impact of Temperature at Storage on Achene Longevity and its Yield in Sunflower	Faisalabad, Pakistan 2016-2018
University of Agriculture, Faisalabad Bachelor of Science Honors, Agriculture Sciences (Specialization: Seed Science and Technology)	Faisalabad, Pakistan 2012-2016

Certifications & Training

Agri Data and Smart Data Bootcamp

University of Agriculture, Faisalabad (Dec 16-17, 2024)

Statistical and Biometrical Techniques Used and Agriculture and Biological Sciences

Faisalabad, Pakistan

Nuclear Institute of Agriculture and Biology, Faisalabad (Dec 10-12, 2024)

Int. Training Workshop on Seed Conditioning

Faisalabad, Pakistan

University of Agriculture, Faisalabad (May 3-4, 2024)

Int. Training Workshop on Innovative Seed Storage Technologies

Faisalabad, Pakistan

University of Agriculture, Faisalabad (May 1-2, 2024)

Center of Advanced Studies in Agriculture & Food Security, UAF (October 9, 2023)

Faisalabad, Pakistan

Biosafety, Biorisk Management & Responsible Science

Impact of AARI Varieties and Seed Development System on National Economy

Faisalabad, Pakistan

Ayub Agriculture Research Institute (March 9, 2023)

International Wheat Conference (October 19-20, 2022)

Faisalabad, Pakistan

By: Dept. Plant Breeding and Genetics, University of Agriculture, Faisalabad

Hands-on Training for Seed Testing (June 10, 2021)

Faisalabad, Pakistan

By: Dept. Plant Breeding and Genetics, University of Agriculture, Faisalabad

Faisalabad, Pakistan

Amal Career-Prep Fellow: (Nov 2017 - Jan 2018)

- Communication: Completed a competitive written application and interview process to be selected from over 2300 applicants for intensive 3-month Fellowship funded by Stanford University
- Skills development: Invested 150 hours to develop business skills (e.g., communication, leadership, problem solving, teamwork, etc.) that helped me make a deeper impact on the job

U. S. Pakistan Center for Advanced Studies in Agriculture & Food Security

Faisalabad, Pakistan

- Career Prep Workshop (Mar 29, 30 2017)

Molecular Care

Faisalabad, Pakistan

- Biosafety: Importance and Risk Assessment (Apr 2017)

Henan University of Technology (Confucius Institute - U. A. F.)

Faisalabad, Pakistan

- Martial Arts: (Mar 2016-Jul 2016)

1st and 2nd Seed Congresses

Faisalabad, Pakistan

- Seed Security for Sustainable Agriculture: (2016 & 2017)

Publications

1. Akhtar, M. W., Akhtar, M. N., Awais, M., & Yaqoob, M. U. 2024. Biofortification of wheat with zinc and iron through foliar application to improve grain yield and quality. *Journal of Agricultural Research (JAR)*, 62(3), 131-141. <https://doi.org/10.58475/2024.62.3.2125>
2. Shaheen, A., Bibi, A., Awais, M., Ahmad, N., Shoaib, F., Shahbaz, Z., ... & Khan Niazi, I. A. 2021. Evaluation of oat (*Avena sativa* L.) accessions for fodder yield and quality under drought stress. *Journal of Agriculture and Food*, 2(2), 63-78. <https://doi.org/10.52587/JAF050202>
3. Bibi, Amir., S. Akram, M. Awais, Z. Ali, B. Fatima and M. A. Iqbal. 2021. Enhancement of green biomass yield and nutritional quality traits in fodder sorghum through ascorbate priming. *Plant Cell Biotechnology and Molecular Biology*. 22(71&72): 668-675. <https://ikprress.org/index.php/PCBMB/article/view/7418>
4. Ali Zeba, A. Bibi, B. Fatima, M. A. Iqbal, M. Awais, A. Tahir, Q. Shakil and I. Zahid. 2022. Utilization of multivariate analysis to ascertain selection criteria for enhanced nutritious fodder yield and contributing attributes in sorghum (*Sorghum bicolor* L.). *Plant Cell Biotechnology and Molecular Biology*. 23(21&22): 70-79. <https://doi.org/10.56557/pcbmb/2022/v23i21-227700>
5. Muhammad Awais, Sania Zahid, Muhammad Talha Shafique. 2022. Seed Science and Technology. Fundamentals of Agriculture. Vital Biotech Publications. 6: 65-74.
6. Babar, Mobeen, Muhammad Nouman Khalid , Muhammad Waqar Ul Haq , Mamoon Hanif , Zeeshan Ali, Muhammad Awais , Zaid Rasheed , Muhammad Faizan Ali , Irfan Iftikhar , Shahzad Saleem and Ifrah Amjad. 2023. A comprehensive review on drought stress response in cotton at physiological, biochemical and molecular level. *Pure Appl. Biol.* 12(1): 610-622. <https://dx.doi.org/10.19045/bspab.2023.120063>

7. Zulfiqar, M. Waseem, Zahida Noreen, Muhammad Awais. 2020. Relative Susceptibility/Resistance of advance genotypes of *Hordeum vulgare* on the basis of quantitative and qualitative losses caused by insect pests during storage. *TIJOBR*. 3(3): 35-43. (Link: <http://www.rndjournals.com>)
8. Hussain F, I Akhtar, G Murtaza, U Haider, L Rukh and M Owais, 2021. Simulation and performance evaluation of solar tunnel dryer for apricot drying in Northern Pakistan. *Int J Appl Sci Engr*, 9(1): 1-5. (www.ijapscengr.com)
9. Irtaza, G., Awais, M., Murtaza, G., Haider, M., Khalid, M. N., Amjad, I., & Tipu, A. L. K. (2021). Comparative Efficacy of Pre-Tank Insecticides Combination against *Bemisia tabaci* Genn. on Two Cotton Varieties at Layyah, Ind. *J. Pure App. Biosci.* 9(4), 86-100. doi: <http://dx.doi.org/10.18782/2582-2845.8761>

Additional

Interpersonal Skills: Self-motivated and persistent, resilient, and adaptable

Soft Skills: MS Word, Excel, PowerPoint, and Project

Interests: Using designing software, reading newspaper, attending training events and sessions

References

Prof. Dr. Azeem Iqbal Khan

azeem.iqbal@uaf.edu.pk

Chairman

Dept. of Plant Breeding and Genetics

University of Agriculture, Faisalabad.

Mr. Azam Khan

azamkhanryk@gmail.com

Director General

Federal Seed Certification and Registration Department, Pakistan