

## **ENGR AMNA**

### **Agricultural Engineer**

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**Office Address:** Dept. of Farm Machinery and Power,  
Faculty of Agricultural Engineering & Technology,  
University of Agriculture, Faisalabad, Pakistan

### **Academic Qualifications:**

<b>Sr.</b>	<b>Degree</b>	<b>Board/University</b>	<b>Marks /CGPA</b>	<b>Specialization / Major</b>	<b>Year</b>
1	M.Sc. (Hons.) Agricultural Engineering	University of Agriculture, Faisalabad	3.93/4.00	Farm Machinery and Power	2020-2022
2	B.Sc. Agricultural Engineering	University of Agriculture, Faisalabad	3.92/4.00 (Gold Medal)	Farm Machinery & Power, Irrigation & Drainage, Structures and Environmental Engineering	2014-2018
3	F. Sc. Pre- Engineering	BISE Faisalabad	947/1100	Physics, Mathematics, Chemistry	2012-2014
4	Secondary School Certificate	BISE Faisalabad	989/1050	Physics, Mathematics, Chemistry, Biology	2010- 2012

### **Working Experience:**

<b>Sr.</b>	<b>Duration</b>	<b>Title and Name of University/Organization</b>
1	October 2024 to Date	Working as <b>Assistant Executive Engineer (Lab Engineer) (BPS-17)</b> in the Department of Farm Machinery and Power, Faculty of Agricultural Engineering and Technology, University of Agriculture, Faisalabad.
2	January 2024 to June 2024	Worked as <b>Visiting Lecturer</b> in the Department of Farm Machinery and Power, Faculty of Agricultural Engineering and Technology, University of Agriculture, Faisalabad.
3	December 2022 to June 2023	Worked as <b>Research Assistant (Precision Agriculture)</b> in project titled “Establishment of National Center in Big Data and Cloud Computing (NCBC-PAAL)”, Center of Advanced Studies in Agriculture and Food Security (CAS-AFS), University of Agriculture, Faisalabad.
4	May 2017 to July 2017	Internship on “ <b>Analysis of Rainfall Potential, ET Loss, &amp; Evaluating Water use Efficiency in Pothowar Area.</b> ” Climate Change, Alternate Energy & Water Resources Institute(CAEWRI), NARC, Islamabad
5	July 17 , 2017 to July 29, 2017	Participated as Surveyor in “ <b>Survey Camp 2017 in Chakwal</b> ” By Department of Structures and Environmental Engineering, Faculty of Agricultural Engineering & Technology, University of Agriculture, Faisalabad.

## **Research Work:**

<b>Sr.</b>	<b>Duration</b>	<b>Title and Name of University/Organization</b>
1	2021 to 2022	M.Sc. research titled “ <b>Development of Machine Vision Based Fruit Sorting System</b> ” Department of Farm Machinery and Power, Faculty of Agricultural Engineering & Technology, University of Agriculture, Faisalabad.
2	2017 to 2018	Final year project on “ <b>Variable Rate Application Through Machine Automation in Precision Agriculture.</b> ” Department of Farm Machinery and Power, Faculty of Agricultural Engineering & Technology, University of Agriculture, Faisalabad.

## **Journal Publications:**

1. \*Amna, M. W. Akram, G. Li, M. Z. Akram, M. Faheem, M. M. Omar, M. G. Hassan, (2023). Machine Vision Based Automatic Fruit Quality Detection and Grading. Frontiers of Agricultural Science and Engineering. (IF 3.7)

## **Conference Papers:**

1. Abstract published in “International Conference on Precision and Sustainable agriculture under Climate Change (IPSAC-2023)” entitled “**Development of Machine Vision based Automatic Sorting and Grading System for Tomatoes**”.

## **Trainings/ Workshops/ CPDs:**

1. One day PEC-CPD webinar on, “**Leadership and Management**” on March 22, 2025.
2. One day PEC-CPD webinar on, “**Entrepreneurship for Engineers**” on March 20, 2025. Three days
3. International Training on “**Crop Yield Estimation and Water Accounting Using Remote Sensing**” on January 10-12, 2023 organized by CAS-AFS, University of Agriculture, Faisalabad.
4. Hands-on training on flight planning, flight, and post-flight image processing using fixed wing drone (EBEE X).
5. Three days CPD training workshop on “**Use of Simulation Software for Reverse Engineering of Agricultural Machinery**” on May 10-12, 2022.
6. Half-day live webinar on “**Leadership and Engineering: A dichotomy or Misunderstanding**” on June 19, 2021.
7. Half-day live webinar on “**Awareness on PEC Initiative on Innovation and Entrepreneurship**” on June 11, 2021.
8. Half-day live webinar on “**Investment Readiness Program**” on June 3, 2021.
9. Half-day live webinar on “**Women Engineers as Freelancers**” on June 1, 2021.
10. Half-day live webinar on “**Massive Connectivity in 5G+ Network for Smart Cities**” on June 1, 2021.
11. Half-day live webinar on “**Self-Discovery with Talent Management Achieving Excellence in Your Professional Career**” on May 7, 2021.
12. Half-day live webinar on “**Young Engineers as Future Consultant**” on May 5, 2021.
13. Half-day live webinar on “**Entrepreneurship Development by Managing Technology and Innovation in Water and Wastewater Treatment Projects**” on April 10, 2021.
14. Half -day CPD live webinar on “**Development of Technical Team & Execution of a Project**” on April 3, 2021.
15. Half -day CPD live webinar on “**Development of Technical Team & Execution of a Project (Part-II)**” on March 26, 2021.
16. Training workshop on, “**Scientific Writing and Professional Networking**” organized by Society of Engineers and Technologists, FAET, University of Agriculture, Faisalabad on January 8, 2021.
17. One day PEC-CPD workshop/webinar on, “**Solar Power Generation**” organized by WAPDA Engineering Academy, Faisalabad on December 31, 2020.
18. One day PEC-CPD workshop/webinar on, “**Hydrological Modeling Using HEC-HMS**” organized by WAPDA Engineering Academy, Faisalabad on December 29, 2020.
19. Webinar on, “**Improving Research Planning Skills Using Elsevier Tools-Scopus and Science-Direct**” organized by University of Agriculture, Faisalabad on December 22, 2020.

20. International PEC-CPD Workshop on, “**Hydrological Monitoring Technologies**” organized by Department of Structures and Environmental Engineering, FAET, University of Agriculture Faisalabad on February 17,2020.

### **Co curricular achievements:**

1. **First position in Science Quiz (10<sup>th</sup>)** in district Faisalabad organized by District Sport Tournament & Literary Competition in 2011-12 sessions.
2. **First position in Science Quiz (10<sup>th</sup>)** in BISE Faisalabad organized by BISE Faisalabad in 2011.
3. **First position in Science Quiz (9<sup>th</sup>)** in district Faisalabad organized by District Sport Tournament & Literary Competition in 2010-11 sessions.
4. **Third position in Science Quiz (9<sup>th</sup>)** in BISE Faisalabad organized by BISE Faisalabad in 2010.
5. **Third position in Digital Poster Competition** on the eve of World Soil Day December 05, 2020 organized by Society of Engineers & Technologists, University of Agriculture, Faisalabad.

### **Awards / Honors:**

1. **Gold Medal** in B. Sc. Agricultural Engineering by University of Agriculture, Faisalabad in 2018 batch.
2. **Shield of Excellence** by the Faculty of Agricultural Engineering, University of Agriculture, Faisalabad in 2018.
3. **Merit Scholarship** from the University of Agriculture, Faisalabad.
4. **Excellence Award** by Azam-e-Alishan awards in 2016.
5. **Laptop** by PM Laptop Scheme.

### **Computer Skills:**

Know the basics of

- Auto-CAD
- Image Processing using Python
- SolidWORKS
- MS Word, Power Point, Excel
- Real time Landscaping
- ArcGIS, QGIS
- Automation Studio 5.0

### **Personal Skills & Capabilities:**

- Self-motivated to learn
- Working in group
- Time Management skills
- High level of responsibility