

Engr. Gohar Gulshan Mahmood

Agriculture Engineer

Bolzano, Italy

INTRODUCTION:

I am an Agriculture Engineer pursuing PhD degree in Mountain Environment and Agriculture.

EDUCATION:

- **PHD MOUNTAIN ENVIRONMENT AND AGRICULTURE – ONGOING**
- **MSc. (HONS) AGRICULTURAL ENGINEERING & TECHNOLOGY (UNIVERSITY OF AGRICULTURE, FAISALABAD)**
 - Thesis title “Evaluation of Climate Change Impacts on Rainfall Patterns in Pothohar Region of Pakistan”
- **BSc. (HONS) AGRICULTURAL ENGINEERING & TECHNOLOGY (UNIVERSITY OF AGRICULTURE, FAISALABAD)**
 - Training course of Auto Cad from Skills Development Authority, Pakistan.
 - 6-month training in High efficiency Irrigation System by Jaffer Agro Services.

4-month internship on water recourse management at Water Management Research Center Faisalabad.

WORK EXPERIENCE:

FREE UNIVERSITY OF BOZEN-BOLZANO

WORKED AS RESEARCH ASSISTANT

MAY 2024 – SEPTEMBER 2025

“Agritech – Spoke 4 National Research Center for Agricultural Technologies”

Job Description:

- Worked on the development of farm decision support system along with implementation of operational monitoring for farm machinery to support farm information system.
- Collected data from farms and managed database to analysis.
- Generated work sessions for whole year data and plotted using QGIS.

ASIAN DEVELOPMENT BANK - CENTRE FOR AGRICULTURE AND BIOSCIENCE INTERNATIONAL

WORKED AS FIELD SUPPORT EXPERT

MARCH 2020 – APRIL 2024

“Enhancing Technology-Based Agriculture and Marketing in Rural Punjab (ADB KSTA-9838)”

Job Description:

- Worked on the feasibility study for the establishment of “Agricultural Machinery Testing, Evaluation & Certification Centers”.
- Engaged with private service providers to pilot and demonstrate new technologies especially advanced harvesting machines for paddy, wheat and maize for improved farming practices.
- Conducted demonstrations of latest harvesting machinery for service provider’s capacity building and literacy trainings for farmers.
- Worked on machine performance evaluation to check harvesting losses.

- Worked on grain drying and storage technologies.
- Conducted wheat and paddy seed cleaning activities in Punjab pilot sites.
- Established stakeholders' communication networks supported by ICT to scale up demonstration activities and inclusively reach out targeted farmers in the pilot areas.
- Collaborated with public and private research centers that provided research and development (R&D) inputs for good production practices through pilot activities.

TERRA INTERNATIONAL CONSTRUCTION L.L.C

WORKED AS IRRIGATION ENGINEER

NOVEMBER 2018 – DECEMBER 2019

Job Description:

- Worked as Irrigation Site Engineer in Masdar Institute Neighborhood project, Abu Dhabi.
- Looked after for technical submittals for irrigation, hard and soft landscaping.
- Conducted preliminary study of the sit to assess the site's potential.
- Estimated and handled materials for full scope of work.
- Developed strategies for execution of plan and liaise with other contractors on site.
- Monitored & handled site activities regarding landscaping and irrigation works.
- Designed and installed the irrigation pump room for entire landscape system.
- Worked on maintenance services of installed systems.
- Ensured that work inspection cleared on time.
- Ensured to clear the concerns raised by consultant by clearing SOR & NCR to maintain the quality of work.
- Looked for budget and forecast plan to save involved cost and efficient allocation of work force.
- Prepared daily, weekly and monthly reports of site activities.
- Attended site coordination meetings with contractor and consultants.
- Ensured that all construction process is according to schedule for proper testing and commissioning of system.
- Conducted weekly safety meeting with team to ensure H&S during onsite operations.

PROJECT:

MASDAR INSTITUTE NEIGHBORHOOD, MASDAR CITY, ABU DHABI.

SCOPE OF WORK: Irrigation, Soft Landscape, Hard Landscape (Pavers, Skylight, Shade Structure, Furniture)

CLIENT: Masdar City

MAIN CONTRACTOR: Sixco

CONSULTANTS: GHD, Aecom

DEFFUFA DÉCOR INTERIOR & LANDSCAPE

WORKED AS AGRICULTURE ENGINEER

MARCH 2018 – NOVEMBER 2018

Job Description:

- Design of irrigation systems (Drip & sprinkler), pressure & head calculations, pump selection, valve selection & pipe sizing.
- Prepared quotations for jobs in hands & tenders for irrigation & landscape execution.
- Proper estimation as per irrigation & landscape design for execution.
- Ensured technical submittals, drawings, materials, approvals, happening in time.
- Supervised sites for landscape maintenance.
- Checking & adjustments of irrigation controllers for proper working.
- Supervised labor for keeping the site in good condition.

JAFFER BROTHERS LIMITED PAKISTAN

WORKED AS IRRIGATION ENGINEER

SEP 2017 – FEB 2018

Job DESCRIPTION:

- Designing and installation of (HEIS) High Efficiency Irrigation Systems.
- Plans, designs, and oversees construction of irrigation projects for transporting and distributing water to the fields and plants.
- Plans and designs irrigation fixtures and installation of fixtures to requirements and specifications.
- Preparation of BOQ pertaining to said designs.
- Monitor and supervise work on-site and handing over the finished project with proper testing and commissioning reports.

UNIVERSITY OF AGRICULTURE FAISALABAD

WORKED AS RESEARCH OFFICER

Nov 2016 – MAY 2017

Job DESCRIPTION:

- Worked as research officer in UAV pilot monitoring and evaluation project in Faisalabad district.
- Collected data for various crops in five tehsils.
- Managed teams and prepared schedules for surveys.
- Carried out surveys and interacted with farmers for accurate data collection.

LABORATORY SKILLS:

- SQL
- SPSS
- AutoCAD
- Microsoft Office (MS Word, Excel, Power Point, Microsoft Teams, etc.)

RESEARCH PROFILE:

- **Google Scholar:** [Gohar Gulshan Mahmood](#)