



MUHAMMAD JAFFAR

PAKISTAN

B.Sc. Civil Engineering

PGD in Geotechnical Engineering

M.Sc. Water Science Engineering with specialization in Hydroinformatics (In progress)

Experience:

- I work in Irrigation Department of Punjab province in Pakistan. I have experience of working in different sectors of water science engineering. I served as a sub divisional officer where my duties were to maintain irrigation structures of sub division and provide equitable distribution of water to all stakeholders.
- I also worked in disaster and climate resilience improvement project (DCRIP) funded by world bank and flood emergency reconstruction and resilience project (FERRP) funded by ADB, in the capacity of Assistant Director (Technical).
- My last posting was as regulation officer at Sulemanki river headworks, where my responsibilities were to regulate the river along with three main canals of 14000 Cs.



WHY HYDROINFORMATICS ?

- Pakistan is an agriculture based economy and has faced an abrupt change in weather patterns and encountered many floods in recent past.
- My department is responsible to protect the 120 million people of the province against these events. However it lacks the capacity to predict and forecast the extent of any flood event.
- Therefore to increase the capacity of the department in this domain I have been selected by my department along other officer for this specialization.



Learning Objectives:

- I want to learn how information & Technology tools, integrated with different hydrological and hydraulic software are helping in improvement of ecosystem.
- How different departments are using hydroinformatics for improvement in the overall system?
- What are the practical constraints of using information technology and how we can improve it?



Research Interests:

- Catchment Modelling from perspective of floods
- Use of weather forecast for prediction of floods and its risk



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