

**POSITION: Program Manager / Research Associate**

The International Water Institute (IWI) is seeking a seasoned, collaborative and results-orientated Program Manager/Research Associate to lead our Stewardship Program and support research within our Center for Applied Research and Decision Support (CARDS). The IWI Stewardship Program is an innovative approach to quantify agricultural stewardship at watershed scales. The Program Manager/Research Associate will lead the continued development of the Stewardship Program working collaboratively with the IWI Research Director, a team of professionals, agricultural producers, and other partners. The IWI Program Manager/Research Associate will also contribute to CARDS by developing and executing applied research projects to fulfill the IWI mission including preparing project proposals, scopes of work and budgets.

Out of state travel will be necessary, but not on a daily basis. The IWI position will be based out of the IWI offices in Fargo, North Dakota.

**KEY RESPONSIBILITIES:**

- Analyze agricultural producer operations and develop innovative solutions for profitable conservation using precision agriculture tools.
- Develop research proposals and execute projects in alignment with the IWI mission.
- Work collaboratively with the IWI Research Director and the project team.
- Identify and communicate objectives with project team members and consultants.
- Lead problem-solving and monitor project progress.
- Prepare scope of work and related budgets.
- Manage budgets and maintain cost awareness.
- Prepare oral and written reports.
- Engage and recruit project partners and participants.

**REQUIRED SKILLS/QUALIFICATIONS:**

- Master's Degree (Doctorate preferred) in water resources science, soil science, agronomy, engineering, natural resource management, or related field.
- Minimum of 5 years prior background in successful project management.
- Documented research background via peer-reviewed publications.
- Excellent leadership skills.
- Working knowledge of agronomics and farm management principles.
- Excellent written and oral communication skills.
- Entrepreneurial.

**ABOUT THE INTERNATIONAL WATER INSTITUTE:**

The IWI, located in Fargo, North Dakota, is a 501c3 non-for-profit corporation formed in 2000 to foster watershed stewardship through leadership in decision support, environmental monitoring, and educational programming. The IWI offers a dynamic and productive work environment, competitive wages, and an excellent benefits package including paid time off, holidays, company paid medical insurance with HSA company contributions, disability and life insurance, and 401K with company contributions up to 8% of annual salary.

**TO APPLY:**

Send resume, and letter addressing the required skills/qualifications to Charles Fritz: [charles@iwinst.org](mailto:charles@iwinst.org)

December 8, 2020



## Computer Programming Internship

The International Water Institute is looking for a student of computer science/engineering or appropriate discipline for a paid part-time internship. The intern is responsible for developing a stand-alone computer application for automating data retrieval, data analysis and charting tasks. The programming language ideally would be applicable to both desktop computers and web environments. Currently, the input data needed for the calculations and charts are manually copied and pasted into EXCEL.

The input data are currently saved inside an ArcGIS geodatabase. Possible tasks include:

- Writing a small script in ArcGIS (script files can be .py, .aml, .exe, .bat) or to use Modelbuilder or VBA for ArcObjects to run a custom tool in batch style to pull the input data from an ArcGIS geodatabase into a simple database.
- Create a simple database to store the input values and calculation results.
- Automate the calculations currently performed in a series of EXCEL spreadsheets, to compute the values for a set of new variables. Store the result in the database.
- Automate chart creation from the calculations in EXCEL.

All input data and complete examples for each calculation and all charts will be provided by the institute. The institute can provide an ArcGIS software license for the term of the internship if needed.

Programming can be performed remotely. Communication will occur via zoom or a similar platform.

Start date: ASAP

Time Estimate: > 100 hours

Pay-rate: \$21/hour

If the student is interested the internship could be later extended into more programming tasks of stand-alone apps.

Please contact Mark Deutschman (612.708.3670) at [mark@iwinst.org](mailto:mark@iwinst.org) if you are interested.