Job Description

Title: Precision Aquaculture Scientist
Department: Freshwater Institute
Status: Exempt
Reports To: Freshwater Institute Director of Research
Reporting to this Position: TBD
Date of Preparation: December 1, 2020

POSITION SUMMARY
Under guidance from the Director of Research, the Precision Aquaculture Scientist leads USDA-ARS research objectives related to precision aquaculture technologies and develops and leads precision aquaculture research projects through industry contracts and/or collaborations with external researchers. The Precision Aquaculture Scientist plays a key role in the Freshwater Institute’s research team and contributes to the team’s success through innovation and technical expertise in this growing field. The Precision Aquaculture Scientist delivers high-quality, leading edge science and peer-reviewed scientific journal articles, and through active engagement with the international research community ensures that The Freshwater Institute is at the forefront of precision aquaculture research.

PRIMARY RESPONSIBILITIES
- Lead USDA-ARS research projects related to precision aquaculture.
- Develop and lead precision aquaculture research projects in collaboration with external researchers, and/or as contractual projects with external companies.
- Lead all research activities related to, but not limited to, sensor technologies, machine learning / vision, artificial intelligence, hardware and software development, and next-generation biological monitoring.
- Deliver regular high-quality peer-reviewed journal publications.
- Collaborate with other Freshwater Institute staff to deliver on research, engineering, and consulting projects, including authoring or co-authoring scientific articles and reports (internal and external).
- Present research results at US and international scientific conferences.
- Regularly interact with key industry stakeholders to determine their needs, and to steer Freshwater Institute research accordingly.
- Contribute to Freshwater Institute-run training and outreach events, including the Water Recirculation for Intensive Aquaculture short course and the Aquaculture Innovation Workshop.

DESIRED BACKGROUND AND PERSONAL ATTRIBUTES
- Doctor of Philosophy in a related field, such as engineering or computer science. Strong candidates with a Master’s degree and demonstrated experience will be considered.
Experience and expertise in relevant areas such as sensor technologies, acoustic telemetry, automated control systems, and/or artificial intelligence and machine-learning platforms.

Demonstrated scientific research project leadership.

Demonstrated ability to perform effectively as a member of a research team.

Ability to communicate effectively with internal staff, consultants, government and university scientists, private company representatives, and the general public.

Must have a valid driver’s license and current passport.

**PHYSICAL/MENTAL REQUIREMENTS:**
The physical and mental requirements described are representative of those that must be met by an employee to successfully perform the essential functions of this job:

- The ability and willingness to travel domestically and internationally, sometimes for extended periods (e.g., 7-10 days).
- Standing for extended periods of time.
- Lifting 50 lbs. from the floor to benchtop height.

Reasonable accommodation may be made to enable individuals with disabilities to perform the essential functions.

To learn more about The Conservation Fund, visit [https://www.conservationfund.org](https://www.conservationfund.org).

Qualified candidates should email their resume with cover letter to: careers@conservationfund.org.

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