**NOW RECRUITING – Postdoctoral Scholar**

**Deadline Extended!! 06/20/22**

**Full Consideration 6/6/22**

Position Summary:
Applications are invited for a 12-month full-time (1.0 FTE) Post-doctoral Scholar appointment in the Department of Fisheries, Wildlife, and Conservation Sciences at Oregon State University. The successful applicant will fill a key position in developing a transferable user-friendly model platform (AquaPV) for achieving robust and flexible resource management outcomes to evaluate the environmental and ecological responses associated with floating photovoltaic (PV; solar energy) deployments. AquaPV will explicitly build and blend multiple sub-models and scenarios into a management tool that can quantitatively visualize tradeoffs between the size of floating PV projects and their ecological implications given baseline environmental conditions. Model development will include the design and production of a graphic user interface to input relevant data and visualize outputs that can be used to guide planning and strategies. AquaPV will link multiple existing physical and biological sub-models including physical (e.g., temperature, evapotranspiration, and light) and biological (e.g., primary productivity, biodiversity, biotic interactions, and fish growth). This position requires strong leadership, organizational and planning skills, and a proven track record of model integration, including experience porting and linking across programming languages. Anticipated start date of mid-May with possibility of one/two years extension, depending on funding. Pay range 55-63K, plus benefits.

The incumbent must successfully complete a motor vehicle history check and criminal history check. They must also possess and maintain a current, valid driver's license in their state of residence. All job offers are contingent upon Human Resources’ final approval.

Position Duties:

75%  **Developing, programming, implementing, and reporting on the AquaPV model**
The incumbent will be responsible for the AquaPV platform development as well as testing AquaPV using different project scenarios across case studies (e.g., different scenarios of shade in estuarine and freshwater systems). Incumbent will work closely with staff from partner institutions and industries. In addition, the incumbent will prepare reports and disseminate results, including presentations to scientific and public groups, reports to funding agencies, and manuscripts for peer-reviewed journals.

20%  **Assist with required data management, and literature review**
The incumbent will supervise a literature review about floating PV projects and environmental monitoring around the globe, as well as summarize existing relevant datasets from a variety of aquatic systems that can be used to parameterize AquaPV.

5%  **Assistance with other research projects conducted in our group**

Minimum Required Qualifications:
Ph.D. (or equivalent) in relevant field (e.g., computer science, bioinformatics, quantitative ecology, or similar)

Strong background in computer programming and quantitative skills (e.g., fluency in R, GIS/spatial analyses, Python)
Demonstrated ability to develop and publish peer-reviewed articles
Ability to prepare reports and disseminate results, including presentations to scientific and public groups, reports to funding agencies

Preferred Qualifications:
Demonstrated knowledge of freshwater systems
Experience with integrated model development
Experience with web-based interface programming
Experience coordinating and leading ecological modelling research

How to Apply:
Send one, combined PDF document containing all application materials to Ivan.Arismendi@oregonstate.edu

Application Materials Required: 1) Letter of Interest 2) CV/Resume 3) Electronic copies of two (2) representative scientific publications 4) Example(s) of product(s) (e.g., software, R package, web-based interface, others) 5) Names and contact information for at least 3 professional references