Three Postdoctoral Research Associate Positions: Climate Change & Fisheries

Applications are invited for three **postdoctoral research associates** to join projects focused on Climate Change and Fisheries. The post docs will be supervised by Dr. Olaf Jensen at the University of Wisconsin Center for Limnology, Dr. Gretchen Hansen at the University of Minnesota, and Dr. Craig Paukert at the University of Missouri.

Qualification and salary for all three positions: Ph.D. in ecology, natural resources, fishery science, or another relevant field; excellent oral and written English language communications skills and a demonstrated record of publication in peer-reviewed journals, experience in quantitative analysis, and the ability to work both collaboratively and independently as part of a larger team, and with natural resource agencies to solve real-world problems. Salary varies slightly by location but 49,000-52,000 plus benefits.

Closing date for all three positions: Applications should include the following components in a single PDF file: cover letter, CV, and contact information for three references *and send to the contact listed on each position with the subject 'postdoc position'*. Review of applications will be on a rolling basis and continue until filled. For top priority, apply prior to 9/11/2020. Start date will be January 2021. Remote work may be considered during covid-related restrictions. All appointments are for at least one year with the expectation that the appointment will be renewed for one additional year contingent upon satisfactory performance. Women and underrepresented minorities are especially encouraged to apply.

Project 1: Identifying fish populations at risk of declining productivity across the Great Lakes and Upper Midwest
Location and contact: Dr. Olaf Jensen at the University of Wisconsin Center for Limnology, Madison, WI

This project will develop climate-linked population models for harvested freshwater fish populations. It builds on previous work on global marine fish productivity in the Jensen lab (*Free et al. 2019 Science. 363: 979-983*) and extends this analysis to include phenological aspects of climate change (e.g., changing ice out dates).

Qualifications specific to this project: The ideal candidate will have experience with stock assessment or population modeling.

Project 2: Climate impacts on fish growth and thermal habitat conditions
Location and contact: Dr. Gretchen Hansen at the University of Minnesota, St. Paul., MN; ghansen@umn.edu

We will quantify changes in fish thermal habitat conditions and growth for multiple managed species (identified by stakeholders) from a range of thermal preferences in Midwestern lentic systems ranging from the Laurentian Great Lakes to inland glacial lakes and reservoirs across the Midwest (e.g., MI, MN, WI to MO). We will quantify the relationship between temperature and growth using statistical models of length to estimate whether growth will change under future temperature conditions. Results of this analysis will be used to inform managers about the effectiveness of length-based regulations under changing climates.

Qualifications specific to this project: Experience or interest in Bayesian statistical models; experience developing quantitative models of fish populations and working with large datasets.

Project 3: Quantifying how climate change in thermal habitat may affect the energetics of key fish species across a latitudinal gradient
Location and contact: Dr. Craig Paukert at the University of Missouri, Columbia, MO; paukertc@missouri.edu

We will quantify the effects of climate change on popular sportfish across a latitudinal gradient (see project 2) using bioenergetics models. The work will help inform managers to understand how key species may respond to climate change so management actions (e.g., harvest regulations, stocking) can be adjusted.

Qualifications specific to this project: interest and experience using bioenergetics models, additional quantitative skills and working with large datasetst will be a plus.