



The University of Wisconsin Aquatic Sciences Center, the administrative home to both the University of Wisconsin Sea Grant Institute and the University of Wisconsin Water Resources Institute, is soliciting applications for the 2016 Wisconsin State Water Science-Policy Fellowships. These Fellowships provide unique educational and career opportunities for recent graduates who are interested both in aquatic resources and in the policy decisions affecting those resources in Wisconsin. This program places recent master's or doctoral graduates within state agencies full-time for one year, with the Fellows bringing technical skills to benefit water issues and challenges and receiving valuable real-world science-policy experience from the resource professionals who will serve as mentors. These mutually beneficial partnerships will result in advancing science to support policy decisions as well as valuable training opportunities for new professionals entering the work force. This year we are offering two fellowships, including the:

- 1) **J. Philip Keillor Wisconsin Coastal Management-Sea Grant Fellowship**, stationed with the Coastal Management Program at the Wisconsin Department of Administration, and
- 2) **Wisconsin Water Resources Policy Fellowship**, stationed with the Bureau of Water Quality at the Wisconsin Department of Natural Resources.

More detail on the fellowships are below. If you have any questions, please contact:

Jennifer Hauxwell at jennifer.hauxwell@aqua.wisc.edu or (608) 263-4756.

J. Philip Keillor Wisconsin Coastal Management-Sea Grant Fellowship

Named in honor of a longtime Sea Grant coastal engineering expert, this fellowship honors Phil Keillor's legacy dedicated to building resilience in Wisconsin communities. The new Fellow will be updating a critically important and well-received coastal engineering processes manual, first created by Keillor, as his/her first project in a shared-funding position between the University of Wisconsin Sea Grant Institute and the Wisconsin Coastal Management Program (WCMP). The last revision of this guide was done in 1998 and can be found here - <http://aqua.wisc.edu/publications/PDFs/CoastalProcessesManual.pdf>. The Fellow will work closely with WCMP's Natural Hazards Work Group, Sea Grant's coastal engineer and local government representatives.

Wisconsin Water Resources Policy Fellowship

This Fellow will be placed at the Wisconsin Department of Natural Resources, Bureau of Water Quality, and is jointly funded between the University of Wisconsin Water Resources Institute and the Department of Natural Resources. Potential projects for the Fellow include:

1. *Developing models using groundwater and climate data to predict historical lake levels and characterize the hydrologic regime of seepage lakes in Wisconsin.* The Fellow may contribute to three analyses: 1) quantifying groundwater and lake level coherence spatially, including identification of areas currently experiencing substantial groundwater withdrawal, 2) developing statistical models that predict historic water levels and 3) characterizing the hydrologic regime for

seepage lakes in the state using a synthesis of groundwater well networks, climate data, models and information from nearby lakes with lake level data.

2. *Developing impairment guidance or criteria for stream total suspended solids and physical habitat.* WDNR routinely determines whether waters across the state are meeting minimal expectations for various pollutants. Sedimentation, suspended solids and habitat degradation are ubiquitous stressors across the state, yet we do not have consistent methods to monitor, analyze and interpret information about these parameters. Our goal is to develop consistent monitoring approaches and assessment endpoints for these stressors, ultimately resulting in policy for making management decisions. The Fellow would contribute to the overall effort of data mining, statistical analysis, interpretation and creating administrative rule language that determines management actions.

Application Deadline: **March 11, 2016**

Eligibility

Any student or postgraduate who will have graduated between summer 2015 and summer 2016 with a degree in an aquatic sciences-related field is eligible to apply. Fellows must have completed all degree requirements before starting the fellowship.

Stipend and Expenses

Annual stipends are dependent on the Fellow's academic background, with post master's Fellows earning \$39,000 and postdoctoral Fellows earning \$45,000, both with additional benefits (see - <http://www.ohr.wisc.edu/benefits/new-emp/grad.aspx>). Fellows will be allotted up to \$2,000 to cover fellowship-related travel and can include conferences. Additional travel associated with the fellowship may be covered by the host agency at the agency's discretion.

Application Requirements

Application packages should be sent to jennifer.hauxwell@aqua.wisc.edu at the University of Wisconsin Aquatic Sciences Center and should include:

1. A cover letter that describes your background and abilities, your expectations from the fellowship experience and how this experience fits with your career goals. Clearly distinguish in the letter to which fellowship you are applying and include on the subject line either "J. Philip Keillor Coastal Management-Sea Grant Fellowship" or "Wisconsin Water Resources Policy Fellowship." Individuals may apply for both fellowships, but will need to submit separate applications. (2 pages or fewer)
2. Curriculum vitae with relevant educational, professional and volunteer experience. (no length limit)
3. Copies of all official undergraduate and graduate student transcripts.
4. Two letters of recommendation, including one from the applicant's major professor; if no major professor exists, another faculty member at the same institution, familiar with your academic record, may be substituted.

Selection Process

University of Wisconsin Aquatic Sciences Center staff will identify a short list of candidates for interviews. Interviews will be conducted by a panel of UW and agency staff members to determine the best fit for the position. It is expected that applicants will possess a strong aquatic sciences and water resources background, strong analytical skills, an ability to manage projects and work independently, and excellent written and verbal communication skills.

Length of Assignment

The length of assignment is one year (non-renewable). The inclusive dates of the official fellowship are June 1, 2016- May 31, 2017. These dates may be adjusted to accommodate academic semester needs or the needs of the candidates or funding institutions.

Reporting and Other Requirements

Quarterly reports will be required during the fellowship as well as a final write-up of the fellowship experience. The Fellow will participate in the University of Wisconsin Aquatic Science Center's outreach and social media programming including maintaining a blog and presenting an overview of his/her experience to a forum of students.

Timeline:

January 22, 2016 – Begin call for applications for fellowship

March 11, 2016 – Deadline for submission of applications

Late March / early April 2016 – Interviews

June 1, 2016 (approx.) – Fellowship begins

May 31, 2017 (approx.) – Fellowship ends

June 30, 2017 – Final fellowship reports to federal funding agencies due