# 2020 Wisconsin Sea Grant Summer Internship Program
# Internship Descriptions

## Foreground the Significance of Manoomin Through Education and Outreach

**Project Description:**
Manoomin (wild rice) is the only grain native to North America, and it is essential to the culture and identity of the Ojibwe people. Sea Grant programs in Michigan, Minnesota and Wisconsin are working with Native Americans on developing education and outreach resources for improved awareness and management of Manoomin.

**Intern Responsibilities:**
This intern will engage with sovereign Native American nations and identify a project which will raise awareness about Manoomin, its cultural and ecological significance, and how to protect it from activities associated with recreational water use and lakeshore property ownership. Possible outputs include outreach and educational materials to raise awareness about Manoomin, and evaluation of these materials.

**Location:**
Madison, Wisconsin

**Work Setting:**
Office work (50%), Off-site (50%)

**Qualifications:**
- interest in Native and Indigenous knowledge systems
- creativity
- comfortable working as part of a team
- ability to drive to off-site locations (valid driver's license, good driving record, etc.)

# Traditional Ecological Knowledge and Great Lakes Literacy

**Project Description:**
An environmentally literate person is someone who has a fundamental understanding of the systems of the natural world, the relationships and interactions between the living and non-living environment and the ability to understand and use scientific evidence to make informed decisions regarding environmental issues. Moreover, a Great Lakes-literate person understands the essential principles and fundamental concepts about the characteristics, functioning and value of the Great Lakes; can communicate accurately about the Great Lakes' influence on systems and people in and beyond her watershed; and is able to make informed and responsible decisions regarding Great Lakes and watershed resources. Wisconsin Sea Grant advances these literacy principles in formal and informal learning environments throughout the state to produce a diverse and skilled workforce that is engaged and able to address critical Great Lakes needs.

**Intern Responsibilities:**
This intern will work with Native Americans to expand Great Lakes literacy content and curricula to include the perspectives and traditions of Native Americans, including approaches to land and water management, with the end goal of enhancing formal classroom and informal education teaching about water.

**Location:**
Madison, Wisconsin

**Work Setting:**
Office work (70%), Off-site (30%)

**Qualifications:**
- interest in learning more about science, environmental literacy and traditional and local ecological knowledge
- solid skills in written communication
- comfortable working independently and as part of a team
- ability to drive to off-site locations (valid driver's license, good driving record, etc.)

# Promoting Watershed Health with Citizen Science

**Project Description:**
The bay of Green Bay is one of the Great Lakes' most ecologically and economically important coastal regions. However, the bay is greatly impacted by excessive nutrient and sediment pollution and a "dead zone" in the summer. The Wequiock-Mahon Watershed, along the east shore of the bay, has enjoyed a long history of community and university collaboration in identifying water quality problems, conservation and watershed planning. A long term, citizen-science monitoring program will help provide the community with crucial data about the health of the watershed that can be used to assess long-term trends and evaluate restoration efforts.

**Intern Responsibilities:**
This intern will develop a citizen-science watershed monitoring program for the Wequiock-Mahon Watershed along the bay of Green Bay in partnership with the University of Wisconsin-Green Bay and area communities. This may include, but is not limited to, monitoring protocol development, recruitment and coordination of volunteers, and creation of outreach and educational materials.

**Location:**
Green Bay, Wisconsin

**Work Setting:**
Office work (70%), Field work (30%)

**Qualifications:**
- interest in water quality and basic background in biology or chemistry
- ability to work independently or as part of a team
- good written and oral communication skills
- willingness to work outdoors in all weather conditions
- ability to drive to off-site locations (valid driver's license, good driving record, etc.)

# Fish Guts: Understanding the Diets of Great Lakes Fish

**Project Description:**
Wisconsin Sea Grant has been working with Michigan Sea Grant to promote angler science on Lake Michigan since 2014. First through the Salmon Ambassadors program, and now with the Great Lakes Angler Diary and Huron-Michigan Diet Study, Sea Grant has empowered anglers to observe and collect information on their fishery. As a result, angler-scientists become ambassadors to promote science in future management decisions that will affect the fishery.

**Intern Responsibilities:**
This intern will engage and recruit new citizen scientists to the Huron-Michigan Diet Study to collect information on specific fish species, specifically working in coastal communities directly with anglers to educate them on a current study of the changing diet of Lake Michigan predators. Activities include interacting with anglers at fish cleaning stations and fishing tournaments when anglers bring in fish, describing the diet project, and collecting fish stomachs from anglers. The intern will also work with partners from Michigan Sea Grant and Michigan State University to develop a fact sheet on the project to distribute over the summer and at future outreach events. Finally, the intern will interact with staff from the Wisconsin Department of Natural Resources to develop port-specific fishing summaries for use in outreach activities.

**Location:**
Manitowoc, Wisconsin

**Work Setting:**
Field work (80%), Office work (20%)

**Qualifications:**
- interest in fisheries science and management
- basic background in biology and ecology
- willingness to work outdoors in all weather conditions
- good oral communication skills; willingness to engage with diverse audiences
- ability to drive to off-site locations (valid driver's license, good driving record, etc.)

# Communicating Coastal Science

**Project Description:**
Wisconsin Sea Grant promotes the sustainable use of Great Lakes resources through research, education and outreach. The effective communication of this mission is of great importance. A team of professionals at Wisconsin Sea Grant uses established science communication principles and methods to advance this mission. These include understanding the audiences of communication messages; shaping messages appropriate to those audiences; exploring and applying new communication tools and strategies, while maintaining past-proven ones; and conducting analysis on the effectiveness of communication.

**Intern Responsibilities:**
This intern will lay the groundwork for communicating the benefits and impacts of scientific research and outreach related to coastal and water resources in Wisconsin through two projects. The first is to assist with strategic planning for a Science Cafe talk series focused on the St. Louis River, a tributary of Lake Superior. The second is to develop and share different messages related to aquatic invasive species in collaboration with Native Americans, and then assess message effectiveness in building understanding and ultimately better management of these nonnative plants and animals.

**Location:**
Madison, Wisconsin (or Superior, Wisconsin)

**Work Setting:**
Office work (80%), Off-site (20%)

**Qualifications:**
- interest in science communication, writing, social media and photography
- strong communication skills
- comfortable working independently and as part of a team
- ability to drive to off-site locations (valid driver's license, good driving record, etc.)