Freshwater Research & Innovation Center

Innovating Water Technology from the Great Lakes

Facility Overview

13170 S West Bay Shore Drive, Traverse City, MI 49684 • freshwatercenter.org

OVERVIEW

The Freshwater Research & Innovation Center is empowering Northern Michigan as the epicenter of water innovation by connecting research, industry, and community for sustainable growth in BlueTech.

A 40,000-square-foot technology facility dedicated to providing space for education, research, innovation, incubation, and commercialization in freshwater technology, it will be located on Discovery Pier's campus in Traverse City, Michigan.

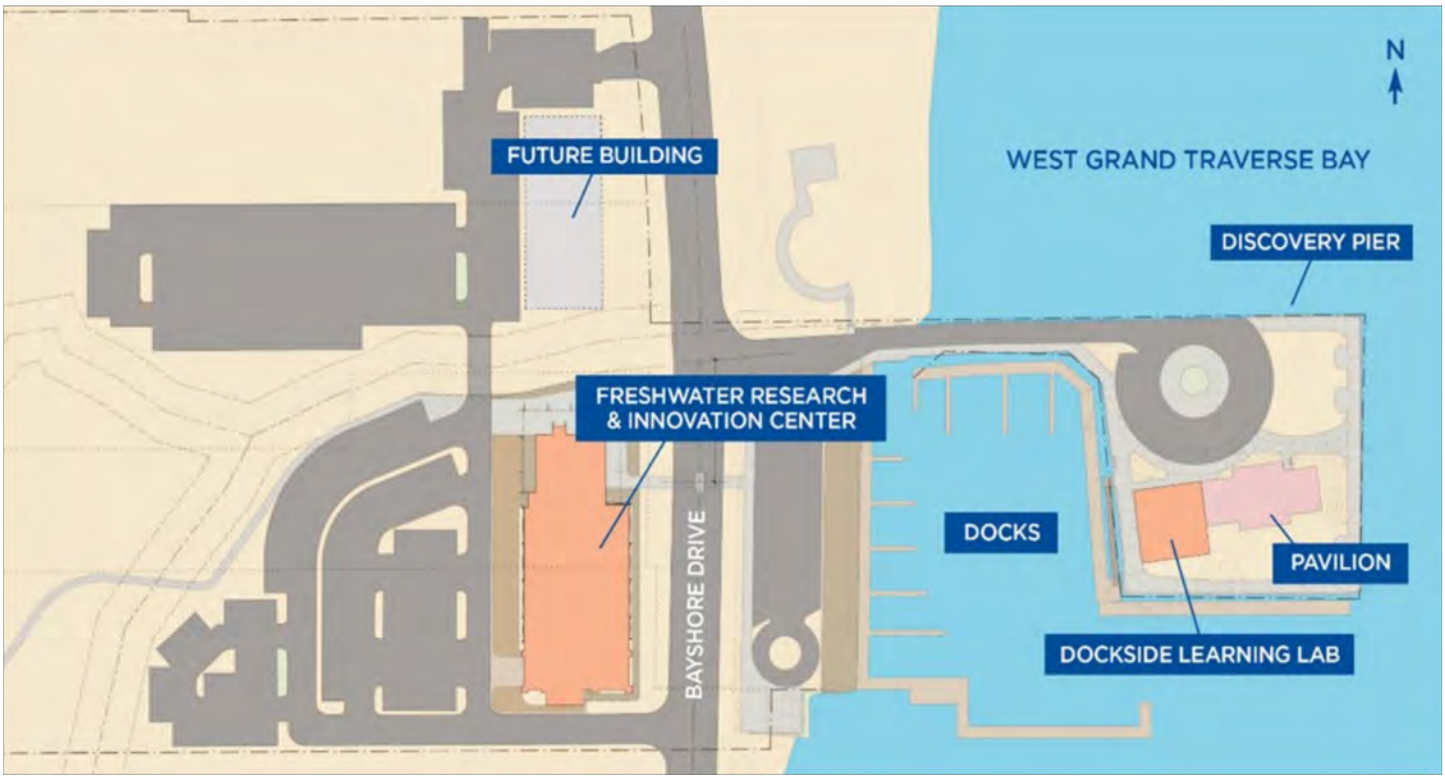
The facility has been designed for Great Lakes research and as launchpad for the development and innovation of emerging blue technologies. With flexible lab spaces, extensive lab support services, and broader blue-tech ecosystem support, the Freshwater Research & Innovation Center will be a collaborative environment where water education, research, and innovation translate directly into BlueTech sector jobs and new businesses.

A PARTNERSHIP BETWEEN

DISCOVERY PIER

Northwestern Michigan College

SITE PLAN



The Freshwater Research & Innovation Center will be located across the road from Discovery Pier, providing direct access to Lake Michigan.

Discovery Pier will provide dock space for research vessels, an equipment crane, and an outdoor classroom pavilion.

FLOOR PLANS

High Bay & Makerspace

Laboratory & Tech Space

Office

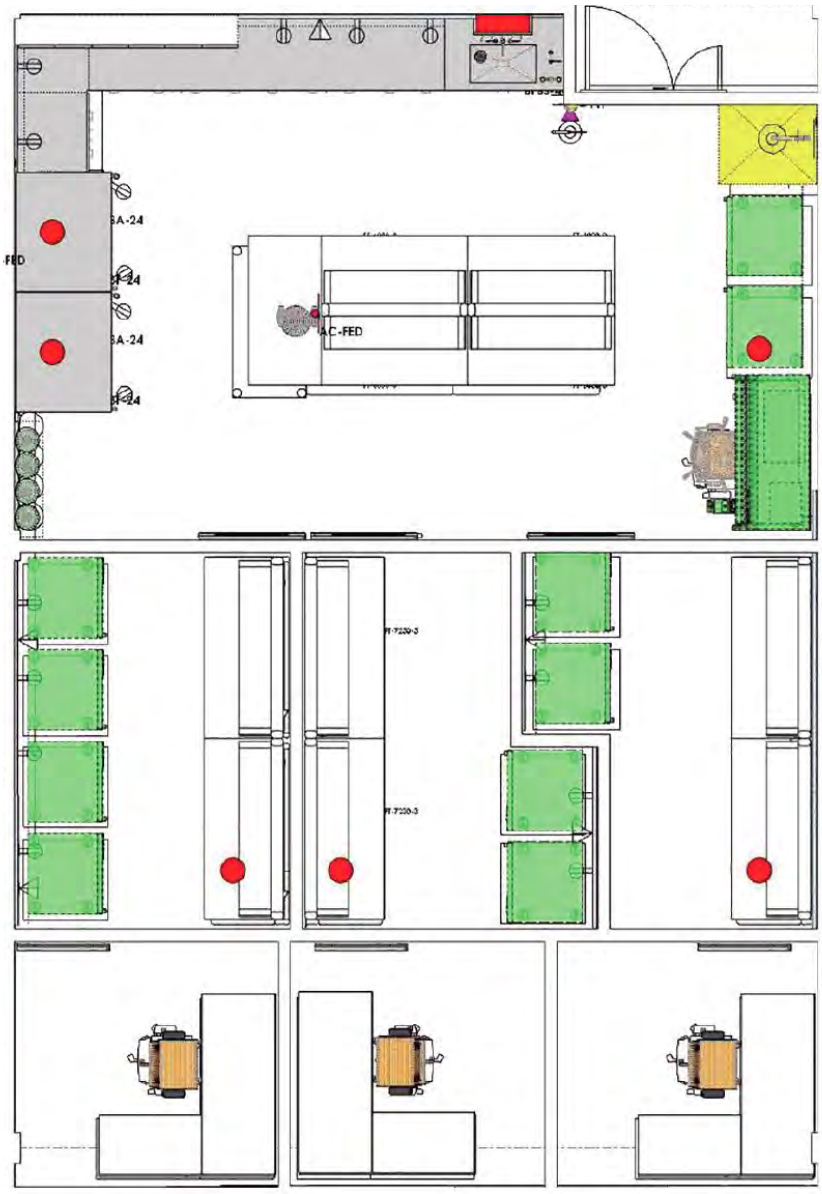
Interactive Public Space

Classroom & Conference Room

First Floor

Second Floor

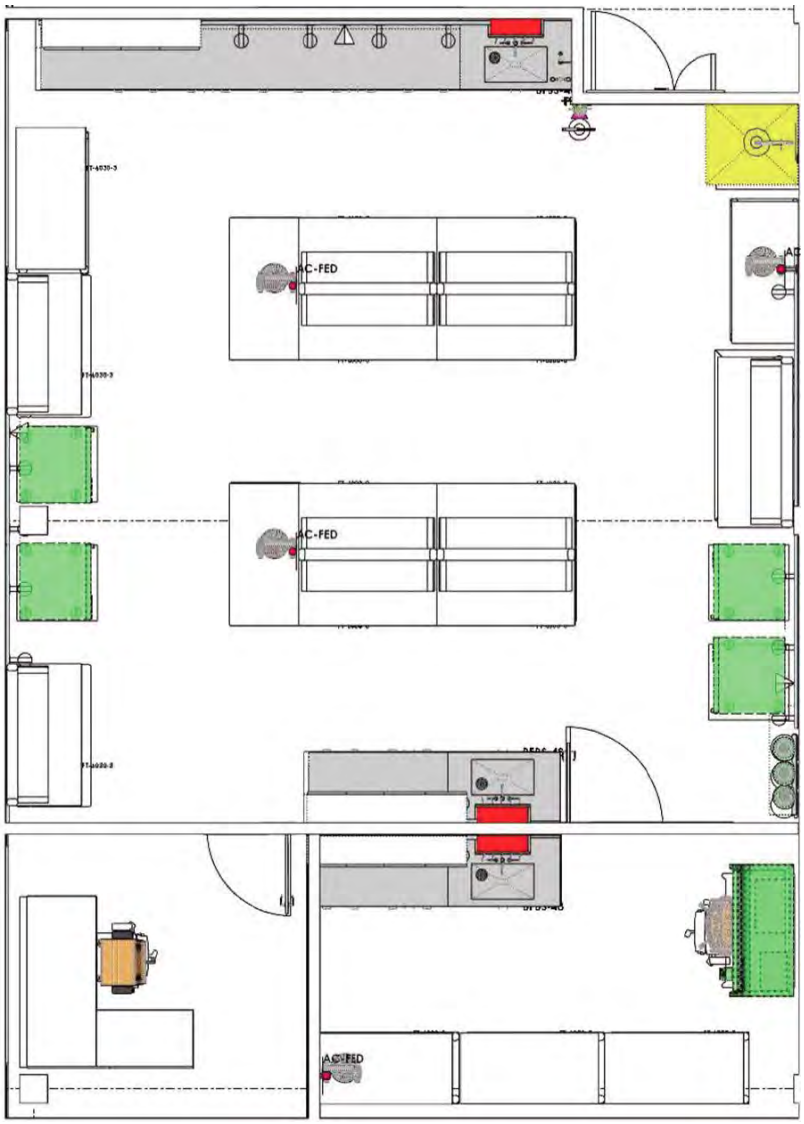
MINI LAB



The mini-labs are designed to support the operations of up to three distinct entities or researchers with a common/shared area for equipment. Each of the approximately 1,000-square-foot labs is equipped with the following amenities:

- Three dedicated individual private lab areas
- Three dedicated individual office areas
- One large shared lab equipped with the following:
  - Fume hoods (upper floors only)
  - Equipment exhaust snorkel
  - Emergency power
  - Deionized water
- Flexible casework
- Space for user-dedicated equipment

WET LAB



The wet labs are designed to support the operations of a single entity or researcher. Each of the approximately 1,000-square-foot labs is equipped with the following amenities:

- Large common area lab space
- Separated offices area
- Shared lab each equipped with the following:
  - Fume hoods (upper floors only)
  - Equipment exhaust snorkel
  - Emergency power
  - Deionized water
- Flexible casework
- Space for user-dedicated equipment

COMMUNAL SPACES

The Freshwater Research & Innovation Center layout supports community with both public spaces on the main level and private user spaces on the second level.

First Floor / Main Lobby

Interactive public display space showcasing the building's activities and work being undertaken in the Great Lakes with an emphasis on the role of marine technology in data collection and use.

Second Floor

Building-specific community space that supports research collaboration and meetings along with a cafe.

BUILDING AMENITIES

The facility will support multiple research, innovation, and product development needs with an extensive list of service-based amenities that include the following:

- Conference rooms
- Seminar/classroom
- Shared office spaces
- Foodservice
- Makerspace equipment with 3-D printers, electronics lab, welding, and paint booth
- High bay space with gantry crane with 3,000 lb. capacity
- Wet/tech bay space with mesocosm tanks with Grand Traverse Bay water
- Centralized deionized water system
- Decontamination autoclave
- Chemical and biological storage and disposal area
- Glassware washing equipment
- Dedicated storage
- Office support (copier, printer, mailroom, etc.)

BLUETECH HUB

EDUCATION	Through partnerships with leading colleges and universities, the Freshwater Research & Innovation Center will host nationally recognized career programs for Freshwater Studies and Freshwater & Marine Technology to strengthen and feed the workforce pipeline.
RESEARCH	With direct access to Lake Michigan, research vessels, and high-tech lab space and equipment, researchers will develop new methods and systems to understand our natural world, and steward the United States' freshwater resource through innovation.
INNOVATION	By aligning education and research with innovation space, experts can lean into cycles of learning, development, and refinement to fast-track the creation of new technologies and advance our understanding, management, and preservation of freshwater.
ECONOMIC DEVELOPMENT	The Freshwater Research & Innovation Center will include new business incubation and accelerator space and programs to remove barriers and support the transformation of top innovations into successful companies and careers. Our ability to facilitate the transfer of innovative technology into marketable products and a trained workforce will make us unique and a key contributor to the blue technology sector.

CONTACT US

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