

Industry Resources FAQs

Will NNMREC develop my technology for the market?

No. We support developers through testing services, research, and other services. Developers play a critical role in the industry and must champion their own technologies, but endeavor to help in any way we can, with the exception of becoming device developers ourselves.

How can I work with NNMREC to develop my technology?

NNMREC helps the developer reach their own goals concerning their technologies. We have expertise, capabilities, and facilities that can help developers move along the technology development lifecycle (Technology Readiness Level, TRL). We can potentially help at any stage of device development; from napkin sketch, through utility scale testing.

How much do NNMREC services cost?

Cost requirements vary widely depending on developer needs. Services are paid for through a pre-arranged agreement with the developer.

Will my intellectual property be protected?

Yes. NNMREC values your intellectual property. We are part of the university system, which has comprehensive practices addressing all aspects of concern. These agreements can take many forms, and lays the foundation for relationships we develop with our partners.

Who else can help me in Oregon? What other funding is available?

NNMREC can help you find the resources you need such as: marine resources, consultants, and other service and supply chain requirements. Other organizations that may be able to help you are as follows:

- Oregon Wave Energy Trust (OWET)
- NSF SBIR / STTR grants.
- Oregon Best Commercialization grants.
- Oregon Entrepreneurs' Network (OEN)

How do I know if my device ready for the open ocean?

Open-ocean testing requires a significant level of planning, funding and readiness. Developers must have a sophisticated team and comprehensive understanding of their technology and its potential impacts.

- Refer to our technology development lifecycle information, and understand the MHK TRL system for technology readiness.
- Review the developer process on our website (forthcoming).

What is the permitting process, and what permits do I need for open-ocean testing?

The permitting process should start very early. It includes a significant degree of discussions with stakeholders and agencies. Stakeholders will need to understand what your device does, how it works, and what impacts your device could have. Be prepared to provide documentation concerning your device including:

- Safety and emergency response plans (including spills)
- Operations plan
- Mooring and anchoring design and validation
- Justifications concerning device operation and safety
- Description of worst-case failure scenarios for your device (including mooring failures)

Also consider potential impacts your device could have concerning:

- Electromagnetic Fields (EMF) generation
- Acoustic sound energy levels
- Marine Mammals
- Sea Birds
- Sedimentation
- Others as determined

What activities are permitted for the Newport North Energy Test Site (NETS)?

Each test requires its own permits, including a Nationwide Permit from the Army Corp of Engineers and the Oregon Department of State Lands. This process results in a lease for the test. A permit is also required by the United States Coast Guard.

How do I initiate the permitting process?

Typically, developers will enlist the assistance of a consultant for permitting. Developers could do this work themselves, but contingencies should be taken to minimize the significant risks involved. A significant effort is required in face-to-face consultation with stakeholders.

I am ready to work with NNMREC, how do I get started?

Review the following information. These items will be discussed during early conversations with NNMREC staff.

Note: NNMREC is not a device developer, but rather a facilitator and supporter of the industry, and developers.

- Do you have a sophisticated understanding of your technology?
- What is your business model, or strategic plan? This could change how we work together.
- Do you have a team of technical and business leaders that will champion your technology?
- What level of funding do you have, and will it support the next level of development?
- What technical, leadership, or understanding gaps do you have?
- Are you ready to take your technology to the next TRL level?
- How will your technology be deployed, commissioned, moored, operated, recovered, and decommissioned?
- What potential impacts could your device have to the ocean ecology, biological resources, sediment transport

Whom should I contact to get started working with NNMREC?

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