



## New Job Posting

Job ID: 2022-1756

Woods Hole, MA

To apply click link: [Director, Imaging Technology Laboratory \(2022-1756\)](#)

# Director, Imaging Technology Laboratory

## Position Description:

Woods Hole Oceanographic Institution (WHOI) is establishing an **Imaging Technology Laboratory (ITL)** and seeks a senior technical leader to lead the initiative. This is a regular, full-time, exempt position, and is eligible for full benefits. The primary goal of the ITL is to create a center of excellence to serve the technical imaging needs of WHOI and the broader oceanographic community. A secondary goal of the ITL is to support Institutional outreach and communications efforts. A successful candidate will build a forward-thinking imaging capability consisting of the key human and technical resources as well as infrastructure to serve the community of stakeholders with imaging requirements. The Institution will provide initial start-up funding for the ITL; it is expected that the leader of the ITL will achieve a financially self-sustaining operation over time through competitive grant funding, either in collaboration with scientific proposals or on a stand-alone basis.

This role is recognized as a leader in the field by functioning as an independent researcher and/or manager. Has full responsibility for project tasks requiring application of management skills and authoritative knowledge of appropriate underlying scientific principles and practices for engineering projects; uses and creates advanced techniques and instrumentation, and creates modifications and extensions of theories, precepts, and practices relevant to the field in which the incumbent is recognized as a leading authority, and/or provides management and superior leadership of a group of technical staff members.

## ESSENTIAL FUNCTIONS:

- Leverage understanding of current and future state-of-the-art, emerging, and cutting-edge imaging technologies and their potential application to oceanography.
- Apply and maintain broad knowledge of a variety of technologies applicable to imaging such as software, hardware, artificial intelligence, machine learning, cameras, lighting, among others.
- Work collaboratively with scientists and engineers to create, develop, design, construct, and advance imaging solutions for use in the field and laboratory.
- Provide engineering and system integration capabilities to scientists, engineers, and operations that drive successful new imaging solutions.
- In conjunction with WHOI Communications, support imaging data management and archiving solutions, including software, hardware, and processes.
- Collaborate with WHOI Communications to support marketing and outreach efforts including coordinating sources of content, production, training, and access to archives.
- Evaluates, organizes, and coordinates major technical efforts as a direct requirement of a scientific project and for key technological developments for future investigations.
- Participates at the highest Institution level for the development of overall scientific strategies, the identification of areas for technological emphasis, and the formulation of experimental techniques.
- Speaks for and represents the Institution's interests in high-level planning activities concerned with technological developments, externally to the Institution.

WHOI is an Affirmative Action/Equal Opportunity Employer/Disabled/Veterans/M/F. We encourage Veterans and those with Disabilities to apply. Applications are reviewed confidentially. Applicants that require accommodation in the job application process are encouraged to contact us at (508) 289-2253 or email [eeo@whoi.edu](mailto:eeo@whoi.edu) for assistance



## New Job Posting

Job ID: 2021-1501

Woods Hole, MA

- Operates as a laboratory head, unit head, or independent researcher, with full supervisory and management responsibilities in an entrepreneurial setting.
- Through research endeavors and the preparation of research results and reports, contributes patentable inventions, important research techniques, and/or engineering designs that significantly impact the ways different aspects of ocean science are studied.

### ESSENTIAL SKILLS OF THE ITL DIRECTOR

- **Vision:** Demonstrable ability to translate the Institutional goals of the ITL to the overall vision of the Institution
- **Implementation:** Ability to develop a pragmatic plan for implementation of the vision, maintaining budgetary alignment.
- **Leadership:** Ability to develop and lead a team that aligns with the vision of the ITL and in alignment with Vision 2030
- **Technical:** Deep understanding of imaging engineering principles and the engineering process
- **Communication:** Ability to communicate successfully to advocate for the ITL among and across stakeholders
- **DEI:** Support Institutional goals for diversity, equity, and inclusion across all facets of the ITL

### REQUIRED EXPERIENCE & EDUCATION:

- Minimum of a Bachelor's degree in Engineering and 10 years' experience, or a Master's degree and 8 years' experience, or a Ph.D. and 5 years' experience.
- Minimum 7 years' experience with Image Sensors and Image Signal Processing.
- Ability to demonstrate a strong portfolio of domain specific experience and independent research & proposal winning
- Demonstrated ability to develop innovative architecture and algorithm designs.
- Ability to work with others in a collaborative and collegial manner as well as a self-driven, self-motivated individual contributor depending on the task at hand.
- Excellent verbal and written communication skills.

### SPECIAL REQUIREMENTS:

- Ability & willing to obtain a U.S Government security clearance is desirable.
- Willingness to participate in cruises as appropriate for the position.
- WHOI has a mandatory COVID-19 vaccination policy in effect, where you must register your full vaccination status [vaccination plus booster] in order to begin your employment. The registration process is confidential and entails submitting your official vaccination records, or requesting to engage in the interactive exemption process for either a medical or religious reason.

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