



# IYRS School of Technology & Trades

## IYRS at a Glance

- IYRS was founded 1993
- Internationally recognized experiential learning institution
- Campuses in Newport and Bristol, Rhode Island
- Offering programs in highly technical and deeply craft-based making, building and restoring
- Small student body, highly career focused industry-driven curricula
- Programs emphasize career skills development, problem solving, teamwork, project management, hands-on skills, and a culture of craftsmanship
- Industry-experienced faculty
- Strong network of industry partners and sponsors

*"IYRS has found a great working model, reaching out continuously to its industry partners to find out where things are going, not just what projects are in process."*

*- Hall Spars*

## IYRS Schools

### School of Composites Technology

- 6-month program with 4-week internship in February & August
- Technical Training in: CAD/CAM, robotic CNC machining, vacuum infusion processing, advanced composite molding, composites restoration and repair practices, molding processes and methods, in-mold coating techniques
- ACMA Certifications: Open Molding, Light Resin Transfer Molding, Vacuum Infusion

### School of Boatbuilding & Restoration

- 20-month program with 4-week internship in July
- Technical Training in: woodworking, hull shape and lofting, laminating, fabrication, joinery, CAD, spar making, historical documentation, surveying & assessment, drafting

### School of Marine Systems

- 6-month program with 4-week internship in February & August
- Technical Training in: electrical systems, electronics installation, hydraulic systems, marine pumps, fuel systems, diesel engines, gasoline inboard engines, LPG systems, CAD, AC & refrigeration, firefighting systems
- ABYC Certifications: Marine Electrical, Marine Systems, Marine Diesel Engines
- NMEA Certification: Marine Electronics Installer

## Industry Development Team

Clark Poston, VP of Industry Development  
Holly Ashton, Industry Relations Coordinator

cposton@iyrs.edu  
hashton@iyrs.edu

(401) 848-5777 x 210  
(401) 848-5777 x 216



# Opportunities for Industry

**Hiring an IYRS Intern:** Internships are an excellent way for industry partners to work with people that are fresh out of school and for our students to work in an economically driven environment. We find that the relationship is mutually beneficial and about 85% of IYRS internships turn into formal job offers. The IYRS internship program stipulates that:

- The internship is fulfilled at your facilities and under your supervision
- They are about 4 weeks in length and should be the typical work-week expected of your employees
- Work assignments should be aligned with the abilities and knowledge of the student and not place the student in unsupervised circumstances

**Hiring an IYRS Graduate:** Graduates of IYRS programs earn key credentials and qualifications to excel in any number of roles, across a wide range of industries both inside and outside the marine trades. IYRS graduates make an immediate impact because of their hands-on industry-driven training which is wrapped in important career and business skills.

**Custom Programming:** IYRS works with schools, industry and government groups to create short, custom programming to meet specific training needs. Below is a sample of the collaborations to date.

- Harvard University's Graduate School of Design: IYRS developed a Composites Fabrication course for Harvard's GSD students focusing on the integration of composites technologies and conventional construction practice, and contemporary architectural design.
- Massachusetts Institute of Technology: IYRS hosted architecture students from M.I.T. to enhance their theoretical understanding of composites by creating their models, and promoting the use of "green" materials in modern architecture.
- Rhode Island School of Design: The students in the Industrial Design program at RISD came to IYRS to learn about the properties of natural-fiber composites and use our lab space to build from their designs.
- U.S. Army: IYRS developed a 3-day course for the U.S. Army exploring the use of composites technology applied to building stronger, lighter, and more efficient shelters.
- U.S. Navy: IYRS provided continuous training for U.S. Naval Officers involved in the maintenance and restoration of their fleet.
- U.S. Coast Guard: IYRS developed a 2-day training program on survey and assessment of wooden hull structures for USCG Marine Safety Inspection Officers.

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