



# ResQ ROV

## Recovery and Rescue

### Cleaning up the deep

As derelict fishing gear continues to accumulate in the ocean, the environmental and economic consequences grow increasingly severe. Lost nets and lines damage habitats, endanger species, and threaten fisheries by creating entanglement hazards. Traditional removal methods often rely on divers or large, resource-intensive ROVs that are risky to deploy and prone to entanglement themselves. WHOI is addressing this challenge with the ResQ ROV: a compact, modular, and cost-effective system designed for safe, efficient removal of marine debris. The vehicle's adaptable configuration allows operators to tailor it to individual missions, combining simplicity with advanced capability. Lightweight and deployable from small vessels, ResQ can operate tethered or autonomously, extending access to hazardous or confined environments.



### Real-world Impact

By reducing reliance on human divers and large underwater vehicles, the ResQ ROV will make the removal of derelict fishing gear safer, more affordable, and more frequent. Whether it is mapping the seafloor, removing marine debris from shipwrecks, or recovering stuck equipment, the ResQ ROV's uniquely adaptable design will lower the barrier to subsea intervention.

*Robin Littlefield, Senior Engineer*  
*Applied Ocean Physics & Engineering*  
*Woods Hole Oceanographic Institution*  
[rlittlefield@whoi.edu](mailto:rlittlefield@whoi.edu)