

## Deep Submergence Laboratory: Overview

The Deep Submergence Laboratory's (DSL) mission is to further human understanding of the deep-sea floor by developing systems for remote, unmanned exploration. DSL engineers and scientists design and adapt state-of-the-art automatic control methodologies to specially designed remotely operated underwater vehicles for survey, close-up observations and sample gathering in some of the most remote and extreme regions of the oceans. Remotely operated and autonomous instrument packages are being designed for rapid, large-scale exploration. The latest development is the hybrid remotely operated / autonomous vehicle (HROV) *Nereus* which utilizes the combined technologies to explore depths to 11,000 meters.

DSL is the base for the remotely-operated vehicles and instruments *ABE / Sentry*, *Jason/Medea*, and the autonomous vehicles *SeaBed*, *Jaguar*, *Puma* and *Nereus*.

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