

# HOW SCIENTISTS AND STUDENTS ARE USING TECHNOLOGY AND CREATIVITY TO EXPLORE OCEANS.

## Structural Restoration

is when students and scientists build man made structures that the corals can seed and grow off of, spreading up recovery and new coral reefs! Looks like Minecraft doesn't it?



## New Technologies for underwater exploration:

Remotely operated vehicles (ROVs) are robots tethered to ship and allowing ocean explorers to reach depths never before seen! Scientists on the ship control ROVs through a long power and data cable. Autonomous underwater vehicles (AUVs) are robots pre-programmed to collect data from particular parts of the deep ocean.

## Youth Power / Empathy

Students in Atlantic Canada and around the world are inspiring their elders and decision makers to care for, preserve, and be stewards for our oceans as well as finding all kinds of new solutions using new technology like:

- Aquatic drones to explore high pressure depths
- Wildlife tags and trackers
- Better satellite imaging for mapping ocean floor
- Advanced underwater camera systems and
- New sensors and open source source technology.



What will you design?

**Connect!**

Want to learn more? Please email [gary@brilliantlabs.ca](mailto:gary@brilliantlabs.ca) to find out how we can work together and develop ocean projects!

**Ocean School** - [oceanschool.nfb.ca](http://oceanschool.nfb.ca)

**What is Ocean School?** [www.youtube.com/watch?v=vHDO2Qaq5JY](http://www.youtube.com/watch?v=vHDO2Qaq5JY)

Ref: [newheavenreefconservation.org](http://newheavenreefconservation.org), [ocean.si.edu](http://ocean.si.edu), [oceanexplorer.noaa.gov](http://oceanexplorer.noaa.gov)



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