

**Abstract:** Our ROV will syphon sediments from the Mississippi River bed and uses a hose to spray the sediments over the levee and back in areas of Louisiana that need them.

**Background and Motivation:**

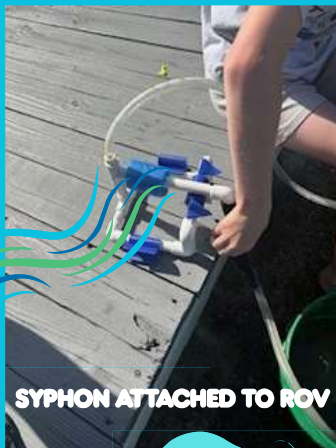
Our state has issues like sinking areas of land and more destruction from hurricane surge and winds. To help rebuild the land we need to divert the Mississippi River sediments.

# Sediment Syphon ROV



**“Sediment Replacer”  
design:**

A syphon and hose will be connected to the bottom of the ROV. These sediments and water will flow out the ROV top hose.



SYPHON ATTACHED TO ROV



SYPHONING SEDIMENTS IN  
WATER

**Project Overview:** We learned how important our Mississippi River is to our state and how it was leveed after the floods of 1927. These levees have also kept the river from overflowing its banks to help replenish the needed sediments that build our wetlands and coastal lands. This project could be helpful to move those needed sediments.

**Next step:** Design a ROV and syphon that will larger to move large amounts of sediment.