



## Neutral Buoyancy Laboratory Overview

The Neutral Buoyancy Laboratory (NBL) is part of NASA's Johnson Space Center. The mission of the NBL is to prepare and train astronauts for space walks and other activities associated with spaceflight during all three main phases of flight (ascent, orbit and re-entry). RTSC supports astronaut training, real-time mission anomaly resolution, timeline evaluations, Extravehicular Activity (EVA) procedure development and verification, flight hardware design, development and validation, mockup development and modification, developmental engineering and analysis and public affairs support.

### Control Room

The NBL simulation control areas provide a broad range of resources for all disciplines involved in the execution of operations in the tank, from facility operations to safety, video support and technical observers.

### Closed-Circuit TV systems

Video coverage of all activities is accomplished using a combination of hard mounted cameras with pan and tilt units and hand-held "float" cameras.

### Work Piece Handling

The NBL has numerous cranes, lifts, stands, etc to make handling and storing work pieces convenient.

### Buoyancy

The NBL has extensive experience and equipment to achieve any level of buoyancy to simulate a variety of environments. Combinations of weights, foam and other floatation devices can be used to simulate full or partial gravity



**Raytheon**