



- Established in 1945 by the Navy post WW II
- Technology Areas
 - Undersea Weapons
 - Undersea Vehicles / UUV's
 - Hydrodynamics and Structures
 - Acoustics & Quieting
 - Comms and Information
 - Power and Energy
 - Navigation
 - Materials/ Manufacturing
- Largest Interdisciplinary Research Unit at Penn State – 1184 faculty/engineers, staff, students
- Classified facilities and programs to SCI
- Research Funding FY-17: \$220M
- Designated an University Affiliated Research Center by DoD in 1996

“...maintains a special long-term strategic relationship with Navy/DoD for technology development and engineering applications.”

VIRGINIA CLASS



DIRECT DIGITAL MANUFACTURING



ACOUSTICS GRADUATE EDUCATION



■ Increase warfighter capability

- develop and demonstrate advanced S&T
- mature the technology from TRL 3/4 to TRL6/7
- transition technology to acquisition and to current systems
- design, deploy, and test new solutions

■ Cost savings for acquisition and lifecycle

- new technology solutions and open standards
- proof of concept before commitment
- design for manufacturing and affordability
- cost / performance design trade tools

■ Education and Training

- filling pipeline of future engineers & scientists
- providing tools / expertise for training forces
- training manufacturers on new technology