NAWCTSD Research Portfolio

• NAWCAD/Office of Naval Research Science & Technology (*BA1-3)
  - Basic Research
  - Applied Research
  - Advanced Development

• DoD Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) program

• Navy Demonstrations and Validation Research (*BA4-7)

• DoD Research
  - Joint/OSD/DARPA
  - Army/USAF/USMC Research

• Technology Transfer (Gov/Non-DoD Research)

*BA: Budget Activity

NAWCTSD is a R&D Performer and Partners with Industry and Academia on Proposals and Subsequent Research Efforts
Small Business Innovation Research (SBIR) Opportunities

- Process (2-3 SBIR solicitations per year)
- Phase I (1st year): Scope problem & detail innovative solution ($75K/$100K option)
- Phase II (2nd-3rd years): Develop prototype, test & evaluate (up to $1.3M)
- Phase III (thereafter): Further R&D development / acquisition transition (Government sole source)

Next Broad Agency Announcement (navysbir.com):


SBSA
Competitive
All contracts Processed at NAWCAD, Lakehurst

Name: William Zeller
Organization: PDR&T Program Office
Phone: (407) 380-4146
Email: ORLO_PDRT@navy.mil

Year 1  RDT&E $75K/ $100K
Year 2-3  RDT&E $1.3M
Year 4+  Non-SBIR $s; No Limit/
TBD – Up to 3 Awards Planned Per Topic

Jun 2023  Aug 2023
RFP RELEASE
Contract Award
Small Business Technology Transfer (STTR) Opportunities

- Small Business Required to Team with Research or Academic Institution (non-Government)
- Phase I (1st year): Scope Problem & Detail Innovative Solution ($75K/ $100K option)
- Phase II (2nd & 3rd years): Develop Prototype, Test & Evaluate ($1.3M)
- Phase III (Thereafter): Further R&D Development/Acquisition Transition (Government Sole Source)
- Large Businesses can Partner with Small Businesses (for Phase III)

**Next Broad Agency Announcement (navysbir.com):**

- OPEN (23.4) **Pre-release:** 15 Jun 2023  **Opens:** 13 Jul 2023  **Closes:** 15 Aug 2023

**SBASA**

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**Continuing Areas of Research**

**Emerging Instructional Methods**
- Adaptive Training Techniques
- AI Enabled Instructor/Crew
- Scenario Based Trg Methods
- Multi-level Performance Measurement & Assessment
- Human Performance Measurement Approaches

**Challenge Areas Supported**
- Denied & Degraded Environments
- Electronic Maneuver Warfare
- Integrated Warfighting Capability
- Cyber Warfare
- Manned-Unmanned Teaming

**Training Technology & Environments**
- Data Science (AI/ML)
- eXtended Reality Visual & Input Enhancements
- Live, Virtual, Constructive
- Distributed Mission Training
- Effects Modeling
- Mobile Learning/Deployable
- Cybersecurity & Cloud-based

**Instructional Strategy**
Research Compendium can be found at the bottom of the NAWCTSD Web site Home page: https://www.navair.navy.mil/nawctsd/
Technology Transfer: Partnering with Industry, Academia, State/Local Government

Software License Agreement (SLA)

- Agreement between NAWCTSD and an Industry partner which allows them to make, use and sell federally developed software with the assurance that we will not sue for infringement.
- NAWCTSD retains rights to use the software for government purposes.
- Industry partner pays royalties to NAWCTSD.

Patent License Agreement (PLA)

- Agreement between NAWCTSD and an Industry partner which allows them to make, use and sell federally owned inventions with the assurance that we will not sue for infringement.
- NAWCTSD retains rights to use the technology for government purposes.
- Industry partner pays royalties to NAWCTSD.

Search for us on federallabs.org/flcbusiness for more information on available technologies.
Technology Transfer: Partnering with Industry, Academia, State/ Local Government

Cooperative Research and Development Agreement (CRADA)

- Allows R&D collaboration between NAWCTSD and non-federal partners.
- Provides the means to offer intellectual property (IP) rights to a non-federal partner.
- NAWCTSD can provide:
  - Personnel
  - Facilities/Equipment
  - Intellectual Property (IP)
  - **NO** funds
- Non-federal party can provide:
  - Personnel
  - Facilities/Equipment
  - Intellectual Property (IP)
  - Funds

Commercial Service Agreements (CSA)

- Allows the sale of defense articles and/or services that are not available from any United States commercial source.
- Makes services of any government laboratory, center, range or other testing facility available for testing purposes on a reimbursable basis.
- Relies on existing capabilities and expertise
- Requires full reimbursement of Government costs
- Cannot compete with United States private industry

New site launched that highlights Navy Tech Transfer Partnering Opportunities and Navy Laboratory Capabilities: navytechtransfer.navy.mil
How to Participate in NAWCTSD Research

• Tell us about your Independent Research and Development (IRAD) efforts

• Respond to SBIR/STTR Solicitations
  – Small Business – Large Business Partnering, Academia can be included

• Pursue Cooperative Research and Development Agreements (CRADAs) with NAWCTSD when we find an area of common interest

• Partner on Joint Proposals (Scientist to Scientist/Engineer to Engineer)
  – If successful w/joint proposals several contract vehicle options available:
    • SBIR Phase III
    • NAWCTSD R&D Broad Agency Announcement (S&T projects only)
    • ONR/DoD/funding agency contracting
      • onr.navy.mil/en/work-with-us/funding-opportunities

• Consider new opportunities available through the Tech Grove

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Research & Technology Program Office POC

<table>
<thead>
<tr>
<th>Director, William Zeller</th>
<th>Deputy Director, Melissa Walwanis, Ph. D.</th>
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<td>(407) 380-4146 / <a href="mailto:ORLO_PDRT@navy.mil">ORLO_PDRT@navy.mil</a></td>
<td>(407) 380-4749 / <a href="mailto:ORLO_PDRT@navy.mil">ORLO_PDRT@navy.mil</a></td>
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Central Florida Tech Grove

An engine to accelerate the government’s access to companies that have not traditionally done business with DoD.

Provides education, support, and access to entrepreneurs and small businesses wanting to connect with the Modeling, Simulation & Training industry.

Checkout these sites for upcoming events:
Centralfloridatechgrove.org
Linkedin.com/company/cftechgrove/

Reach out:

NAWCTSD_Tech_Grove@us.navy.mil

Central Florida Tech Grove
Partnership IV

12809 Science Drive
Orlando, FL 32826
NAWCTSD & Team Orlando STEM Outreach

Programs include:
- DOD STARBASE Central Florida STEM Academy!
- Modeling & Simulation
- Robotics & Programming/Coding
- Mentoring & Parent-Student Workshops
- Leadership Development
- GEMS STEM Camps
- SEAPERCH Competitions/Judging
- Teacher Professional Development
- Job Shadowing
- Career Fairs & STEM Open Houses and more!

If you would like to participate as a volunteer or learn how to support our STEM outreach initiatives, please contact Ms. Emily Sherkow

EMILY.M.SHERKOW.CIV@US.NAVY.MIL  W: (407) 380-8333  C: (386) 748-2307

Visit NAWCTSD STEM at https://www.navair.navy.mil/nawctsd/node/351 to learn more!

Our Science, Technology, Engineering, and Mathematics (STEM) outreach portfolio is supported by uniformed and civilian DoD volunteers, industry and academia subject matter experts who fulfill ONR’s STEM mission to:

- Inspire, engage, and educate the next generation of scientists and engineers, technology professionals, and medical professionals;
- Employ, retain, and develop diverse civilian and military technical workforce; and
- Collaborate across the Naval STEM communities, and with other agencies to maximize benefits to the DoN.

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<tr>
<th>Geographic Reach</th>
<th>FY19</th>
<th>FY20</th>
<th>FY21</th>
<th>FY22</th>
<th>FY23 (Updated May 2023)</th>
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<tbody>
<tr>
<td>Students</td>
<td>7,692</td>
<td>12,775</td>
<td>44,194</td>
<td>62,855</td>
<td>93,826 (1120%)</td>
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<tr>
<td>Teachers</td>
<td>200</td>
<td>3,963</td>
<td>5,640</td>
<td>6,172</td>
<td>7,794 (3797%)</td>
</tr>
<tr>
<td>DoD S&amp;Es, Mentors, Volunteers</td>
<td>119</td>
<td>94</td>
<td>130</td>
<td>168</td>
<td>266 (124%)</td>
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<tr>
<td>Unique Events/Programs</td>
<td>15</td>
<td>18</td>
<td>21</td>
<td>22</td>
<td>26 (73%)</td>
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Impact Growth To-Date:

- Brevard
- Orange
- Osceola
- Seminole
- Volusia