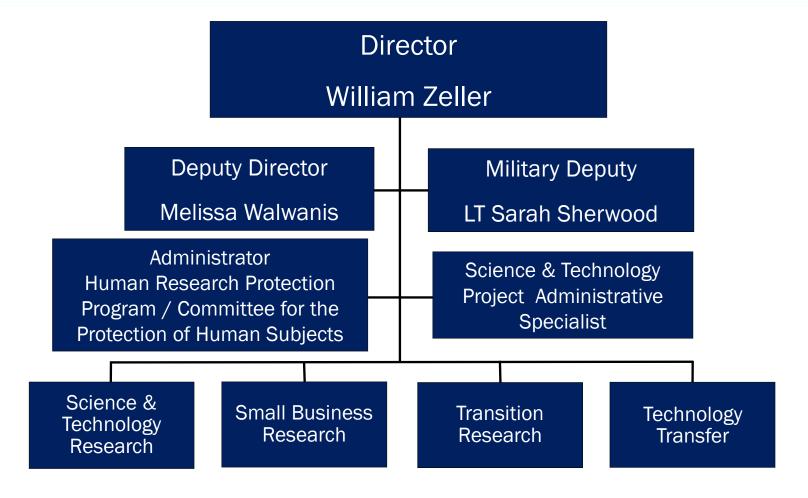




Research & Technology Programs Organization





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 (\$140K/\$100K option)
- Phase II (2nd-3rd years): Develop prototype, test & evaluate (up to \$1.6M)
- Phase III (thereafter): Further R&D development / acquisition transition (Government sole source)

Next Broad Agency Announcement (navysbir.com):

→ (21.2) <u>Pre-release</u>: 24 Aug 2022 <u>Opens</u>: 21 Sep 2022 <u>Closes</u>: 19 Oct 2022

ACQUISITION STRATEGY

STTR Phase 1

Competitive

SBSA

All contracts Processed at NAWCAD, Lakehurst

PERIOD OF PERFORMANCE

Phase I: 6 Months w/ 6 Month Option

Phase II: Up to 24 Months

Phase III: Open

MILESTONES

21 Sep 2022

19 Oct 2022



RFP Release



Contract Award

POINT OF CONTACT

Name: William Zeller

Organization: PDR&T Program Office

Phone: (407) 380-4146

Email: ORLO_PDRT@navy.mil

FUNDING

Year 1 RDT&E \$140K/ \$100K

Year 2-3 RDT&E \$1.5M

Year 4+ Non-SBIR \$s; No Limit/

No Competition Required

The information provided is for planning purposes and is subject to change without notice

CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)

TBD - Up to 3 Awards Planned Per Topic



Small Business Technology Transfer (STTR) Opportunities

- Small Business Required to Team with Research or Academic Institution (non-Government)
- Phase 1(1st year): Scope Problem & Detail Innovative Solution (\$140K/\$100K option)
- Phase II (2nd & 3rd years): Develop Prototype, Test & Evaluate (\$1.6M)
- 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):

→ (21.2B) Pre-release: 24 Aug 2022 Opens: 21 Sep 2022 Closes: 19 Oct 2022

ACQUISITION STRATEGY

STTR Phase 1

Competitive

SBSA

All contracts Processed at NAWCAD, Lakehurst

PERIOD OF PERFORMANCE

Phase I: 6 Months w/ 6 Month Option

Phase II: Up to 24 Months

Phase III: Open

MILESTONES

21 Sep 2022

RFP Release





Contract Award

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TBD - Up to 3 Awards Planned Per Topic



NAVAIR SBIR/STTR Proposal Solicitation Topics

Joint DoD FY-22 SBIR/STTR BAA Schedule Dates subject to change							
Program	Pre-Release	Opens	Closes				
DoD SBIR 22.1 DoD STTR 22.A	1-Dec-21	12-Jan-22	10-Feb-22				
DoD SBIR 22.2 DoD STTR 22.B	20-Apr-22	18-May-22	15-Jun-22				
DoD SBIR 22.3 DoD STTR 22.C	24-Aug-22	21-Sep-22	19-0ct-22				

The next "pre-release" of topics is 24 Aug. You can read the topics and call or email questions directly to the TPOC about the topic. Topics will "open" on 21 Sep. You can submit their questions through the SITIS website dodsbirsttr.mil/topics-app/, where everyone can see the questions and answers.

Topics "closes" 19 Oct. Proposals need to be submitted by this date.

If you have SBIR administrative questions, please contact Mr. John Hodak john.c.hodak.civ@us.navy.mil (407) 380-4737

NavySBIR.com

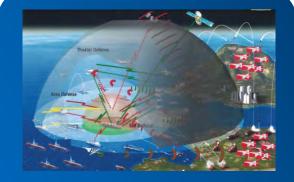


Continuing Areas of Research



Emerging Instructional Methods

- Adaptive Training Techniques
- Al 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



NAWCTSD Research Compendium





Research Compendium can be found at the NAWCTSD website, at the bottom of the home page.

https://www.navair.navy.mil/nawctsd/sites/g/files/jejdrs596/files/document/%5Bfilename%5D/NAWCTSD%20Research%20Compendium%202022%20CURRE NT%20SHS%2011-24-2021%204-07pm%20STANDARD%20QLTY.pdf



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 nonfederal 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

Research & Technology Program Office POC					
Deputy Director, Melissa Walwanis, Ph. D.					
07) 380-4749 / ORLO_PDRT@navy.mil					



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.

Check our LinkedIn for upcoming events.

Reach out: NAWCTSD_Tech_Grove@us.navy.mil

Central Florida Tech Grove Partnership IV 12809 Science Drive Orlando, FL 32826



Centralfloridatechgrove.org Linkedin.com/company/cftechgrove/



NAWCTSD & Team Orlando STEM Outreach



	FY19	FY20	FY21	FY22 (April 2022)	
Geographic Reach	5	5	7	7	I
	Brevard	Brevard	Brevard	Brevard	
	Orange	Orange	Orange	Orange	Impact
	Osceola	Osceola	Osceola	Osceola	Growth To-
	Seminole	Seminole	Seminole	Seminole	Date
	Volusia	Volusia	Volusia	Volusia	
			Duval	Duval	
			Hillsborough	Hillsborough	
Students	7,692	12,775	44,194	62,855	717% 个
Teachers	200	3,963	5,640	6,172	2,986% 个
S&Es, Mentors, Volunteers	119	94	130	168	41% 个
Unique Events	15	18	21	22	47% ↑

Programs Include

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

If you would like to participate as a volunteer or learn how to support our STEM outreach initiatives, please contact Emily Sherkow emily.m.sherkow.civ@us.navy.mil (407) 380-8333

Visit NAWCTSD STEM at navair.navy.mil/nawctsd/node351