DAWNBREAKER

MARKET RESEARCH STUDY

OTHER TRANSACTION AUTHORITY (OTA)

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1.0 Introduction

As many small businesses are looking to diversify their funding sources, the purpose of this report is to provide information on another tool that the Department of Defense is using to more rapidly provide funding to address problems of interest to the Department of War (DoW). Other Transaction Authorities or OTAs provide a method of procurement other than contracts, grants, and cooperative agreements. First used by NASA over 60 years ago, with the passage of the National Defense Authorization Act of 2016, the use of Other Transactions (OTs) was extended to the Department of Defense (DoD) in order to facilitate new technology development, especially from nontraditional sources.[1] Non-traditional sources are defined as businesses and organizations that do not typically engage with the federal government.

OTs are awarded through Consortia or "enterprise partnerships" organized around a technology domain with membership comprised of the federal government and potential technology providers. The source of funding is the federal government. The consortia model provides more flexibility to the federal government and greater speed in all aspects of the technology development process, thus enabling needed technologies to get to the warfighter quicker.

The objective of this report is to provide small, advanced technology firms with an overview of the types of Other Transaction Authorities (OTAs) and the major consortia that are awarded OTAs. After a more detailed introduction to the use of OTA's by DoW, individual Consortia profiles are provided on 22 entities. The following are discussed with respect to each consortia:

- *Consortia partnership* – which DoD service or other entity are they affiliated with?
- *Membership* – which type of entities can become members, and how much does it cost?
- *Bid opportunities* – how often do they issue bid opportunities?
- *Awards* – how many awards have they made during the last 3 years? How much was each award worth, and who won them?

Many consortia provide a listing of the types of technologies of interest, which makes is easy to conduct a keyword search of this document, in order to quickly surface Consortia which may be of particular interest to you.

[1] John Dobriansky and Patrick I'Farrell, "Other Transaction Authority: Acquisition Innovation for Mission-Critical Force Readiness," Contract Management, July 2018

This report is strictly based on public information, and its production did not involve any primary research (e.g., interviews of government officials).

2.0 Overview of OTA Types & Trends

2.1 Types of OT Projects

There are three types of OTAs (also referred to as OTs): research, prototypes, and procurement. Each type is described below in relation to DoD OT practices.

Research OTs: Research OTs are for basic, applied, and advanced research projects. Research OTs are intended to spur dual-use R&D, taking advantage of economies of scale without Government regulatory overhead, which would make them non-competitive in the commercial (non-defense) sector. Traditional defense contractors are also encouraged to engage in research OTs if they seek to adopt commercial practices or standards, diversify into the commercial sector, or partner with non-traditional defense contractors.[2]

Prototype OTs: A prototype generally is a physical or virtual model used to evaluate the technical or manufacturing feasibility or military utility of a particular technology or process, concept, end item, or system. The quantity developed is limited to that needed to prove technical or manufacturing feasibility or evaluate military utility. Research, Development, Test & Evaluation (RDT&E) appropriations are generally appropriate for OT prototype projects.[3] Prototype OTs are used to acquire prototype capabilities and allow for those prototypes to transition into Production OTs or contracts. Successful Prototype OTs offer a streamlined method for transitioning into production without further competition. The Office of the Under Secretary of Defense for Acquisition and Sustainment OT Guide defines a prototype project as a project that addresses a proof of concept, a model, reverse engineering to address obsolescence, a pilot, a novel application of commercial technologies for defense purposes, agile development, a demonstration of technical or operational utility, or combinations of these. In addition, a business process may be the subject of a prototype project.[4] The solicitation and prototype OT agreement should specify whether a production OT is an option.[5]

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[2] DoD Office of the Under Secretary of Defense for Acquisition and Sustainment (OUSD(A&S)), *Other Transactions Guide*, version 2.0, July 2023, 7.
[3] AcqNotes LLC, "Other Transaction Authority OTA," last updated February 7, 2024.
[4] DoD Inspector General (IG), *Audit of Other Transactions Awarded Through Consortiums*, DODIG-2021-077, April 21, 2021.
[5] DoD OUSD(A&S), *Other Transactions Guide*, version 2.0, July 2023, 7.

Production OTs: DoD contracting personnel can non-competitively award follow-on Production OTs from a Prototype OT agreement, as long as the Prototype OT was competitively awarded and successfully completed.[6] While no longer statutorily required with the passage of the FY 2023 NDAA, it is still considered best practice for the solicitation and agreement to specify whether a follow-on production OT is possible.[7, 8]

Table 1: Comparison of DoD OT Types

Research OT	Prototype OT
Applicability:	
▪ Basic, applied, and advanced research	▪ Prototype Project ▪ Directly relevant to enhancing mission effectiveness of DoD personnel, supporting platform, systems, components, or materials to be acquired by DoD, or improvements thereto
Conditions for Use:	
▪ No duplications of research to maximum extent practicable (generally non-issue) ▪ 50-50 Resource Share to the extent practicable	▪ All participants small or non-traditional; **or** ▪ At least one non-traditional defense contractor or non-profit research institution must participate to a significant extent in the prototype project; **or** ▪ At least 1/3 of total costs must be paid by parties to the OT other than the Government; **or** ▪ Senior procurement executive for the agency determines, in writing, that exceptional circumstances justify the use of an OT ▪ Resource share not required (if non-traditional contractor participates); fee/profit negotiable ▪ Competitive procedures to maximum extent practicable
Production OT	
▪ A production effort utilizing the authority of 10 U.S.C. §4022(f) can only be awarded as a follow-on to a Prototype OT award ▪ Follow-on production transactions are not subject to the participant requirements in 10 U.S.C. §4022(d) and will be awarded to the parties in the Prototype OT agreement ▪ Follow-on contract or transaction may be awarded without the use of competitive procedures if o Competitive procedures were used in the Prototype OT, o The prototype project in the transaction was "successfully completed," and o Resource-share only applies to the Prototype OT and not to the Production OT.	

Source: OUSD(A&S), 2023

After a Research OT, the next award instrument is a Prototype OT. However, unlike Prototype OTs, Research OTs do not include authority for transition to follow-on production contracts or transactions. The follow-on activities option is only available

[6] DoD IG, *Audit of Other Transactions Awarded Through Consortiums*, DODIG-2021-077, April 21, 2021.
[7] AcqNotes LLC, "Other Transaction Authority OTA," last updated February 7, 2024.
[8] DoD OUSD(A&S), *Other Transactions Guide*, version 2.0, July 2023, 7.

when a Prototype OT was awarded for the preceding program stage. It may not be used to extend a Research OT directly into production.[9]

DoD OT money comes out of the DoD's overall budget for goods and services, including research and development.[10] Each military service has authority to execute OTs up to $500M with authorization by their Service Acquisition Executive (SAE).[11] While DoD may award OTAs to traditional defense contractors, non-traditional defense contractors, or universities (stand-alone OTAs), many are awarded to OTA consortia.[12] The consortia OTA award process is briefly described below.

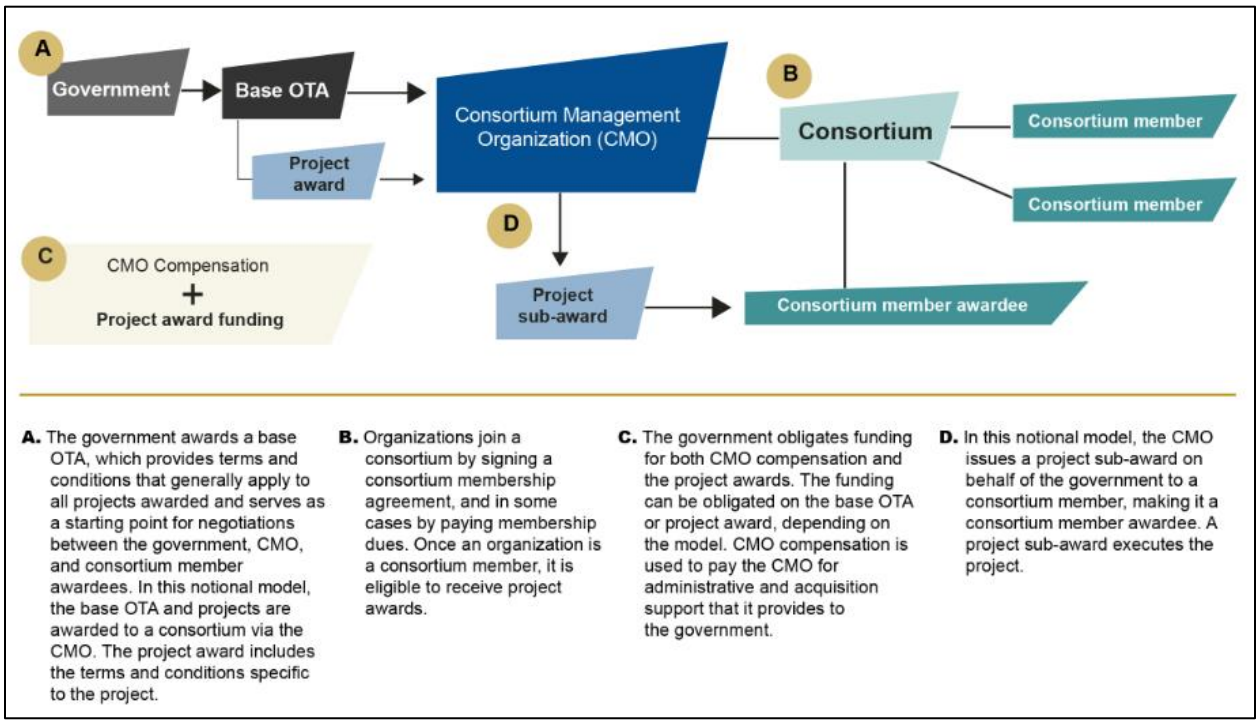


Figure 1: Notional DoD Consortium-Based OTA Model

Source: GAO, 2022

The most recent DoD prototype and production OT guide was issued by OUSD(A&S) in July 2023 and the most recent DoD research OT guide by OUSD(R&E) in September 2023. In September 2024, DoD proposed an updated OTA rule for prototype and follow-on projects, the first since 2004. The comment period closed in November 2024. Proposed changes include:

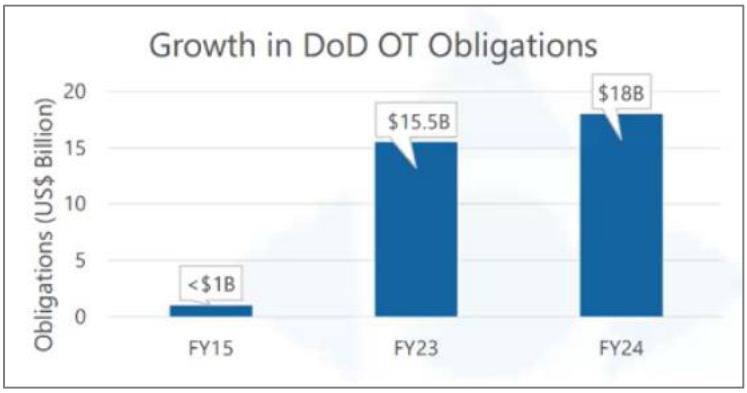
[9] DoD OUSD(A&S), *Other Transactions Guide*, version 2.0, July 2023, 7.
[10] Department of Defense Use of Other Transaction Authority: Background, Analysis, and Issues for Congress, Congressional Research Service, January 22, 2019.
[11] AcqNotes LLC, "Other Transaction Authority OTA," last updated February 7, 2024.
[12] U.S. GAO, "Other Transaction Agreements: DOD Can Improve Planning for Consortia Awards," Report to Congressional Committees, GAO-22-105357, September 2022, 7.

- Expansion of the "appropriate circumstances" under which a prototype OT may be used to include increasing participation by nonprofit research institutions, small businesses and "to expand the defense supply base"
- Authority to issue follow-on production OTs on a sole source basis.[13]

2.2 DoD OT Trends

Obtaining data about DoD's OTA obligations (past and present) is not a straightforward task, due to the lack of regular reporting and due to limitations in data reporting in the Federal Procurement Data System, that make it very difficult to discern how much a given consortium has been awarded in OTAs, or how much is obligated to consortia versus other awardees, for instance.[14] Until Congress includes OTs in the types of federal awards that must be reported in the Federal Data Procurement System and USAspending.gov, policymakers and the public will lack insight into OT spending.[15]

There is a clear upward trend, however, in DoD OT spending over the last 10 years, from less than $1 billion in obligations in FY 2015 to over $18 billion in FY 2024.[16]



Source: Arnholt & Briscoe, 2025[17]

DoD OTAs are increasingly replacing contracts in the mid-to-late stages of the development pipeline for major weapon systems, according to a Center for Strategic and International Studies (CSIS) report, "Department of Defense Other Transaction Authority Trends: A New R&D Funding Paradigm?," released in December 2020, which describes

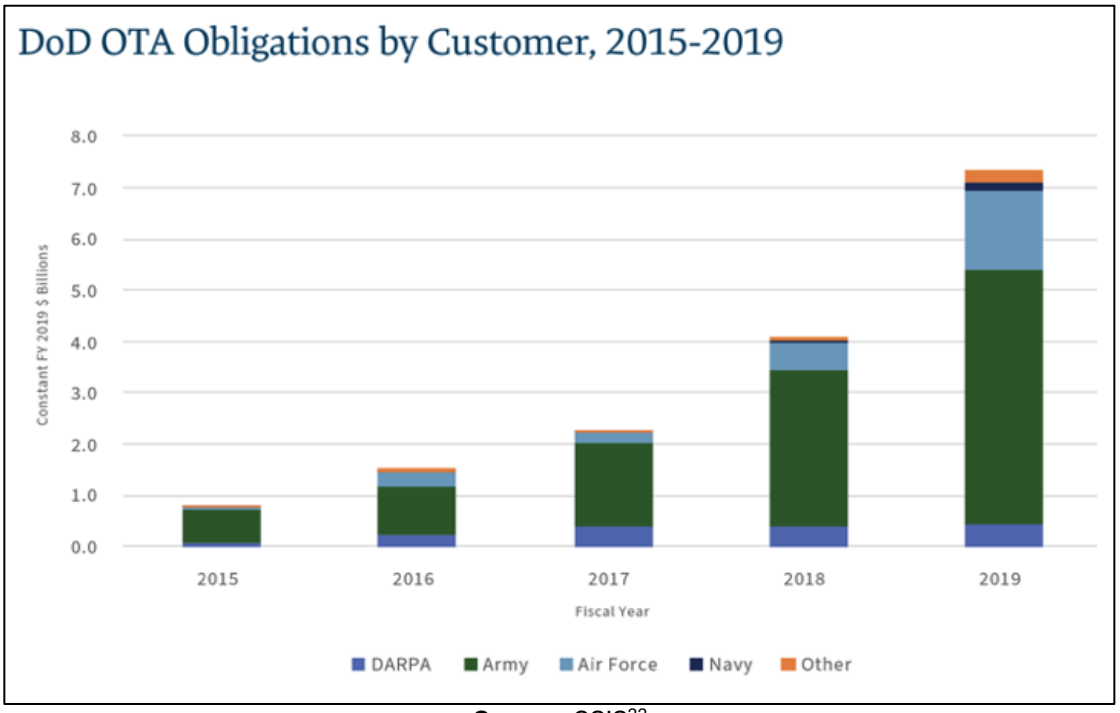
[13] Peter Terenzio and Jennifer Plitsch, "DoD Rolls Out Proposed Changes to Prototype OTA Regulations," *Covington Inside Government Contracts: Procurement Law and Policy Insights,* September 10, 2024.
[14] U.S. GAO, "Other Transaction Agreements: DOD Can Improve Planning for Consortia Awards," September 2022. See open GAO recommendations: https://www.gao.gov/products/gao-22-105357.
[15] Richard Arnholt and Adam Briscoe, "DoD's increased use of Other Transactions Authority" (webinar sponsored by Maryland APEX Accelerator), *YouTube*, July 8, 2025.
[16] Arnholt and Briscoe, "DoD's increased use of Other Transactions Authority," *YouTube*, July 8, 2025.
[17] Arnholt and Briscoe, "DoD's increased use of Other Transactions Authority," *YouTube*, July 8, 2025.

trends FY 2015 - 2019. Between FY 2015 and FY 2019, DoD OTA obligations increased 712%, from $0.7 billion to $7.4 billion.[18] The majority of OTAs during that time were awarded to consortia,[19] and during FY 2015–2019, the top five OTA vendors (accounting for 57%) were all consortia operators. Those top five were:

- Analytic Services Inc. or ANSER (then a holding company for ATI)
- Advanced Technology International or ATI (manages a number of OTA consortia)
- Consortium Management Group Inc. (manages CEED, C5, NASC)
- The National Center for Manufacturing Services (NCMS)
- The System of Systems Consortium (SOSSEC).[20]

CSIS estimated that ANSER/ATI were awarded about a third of all DoD OTAs between 2015 and 2019.[21]

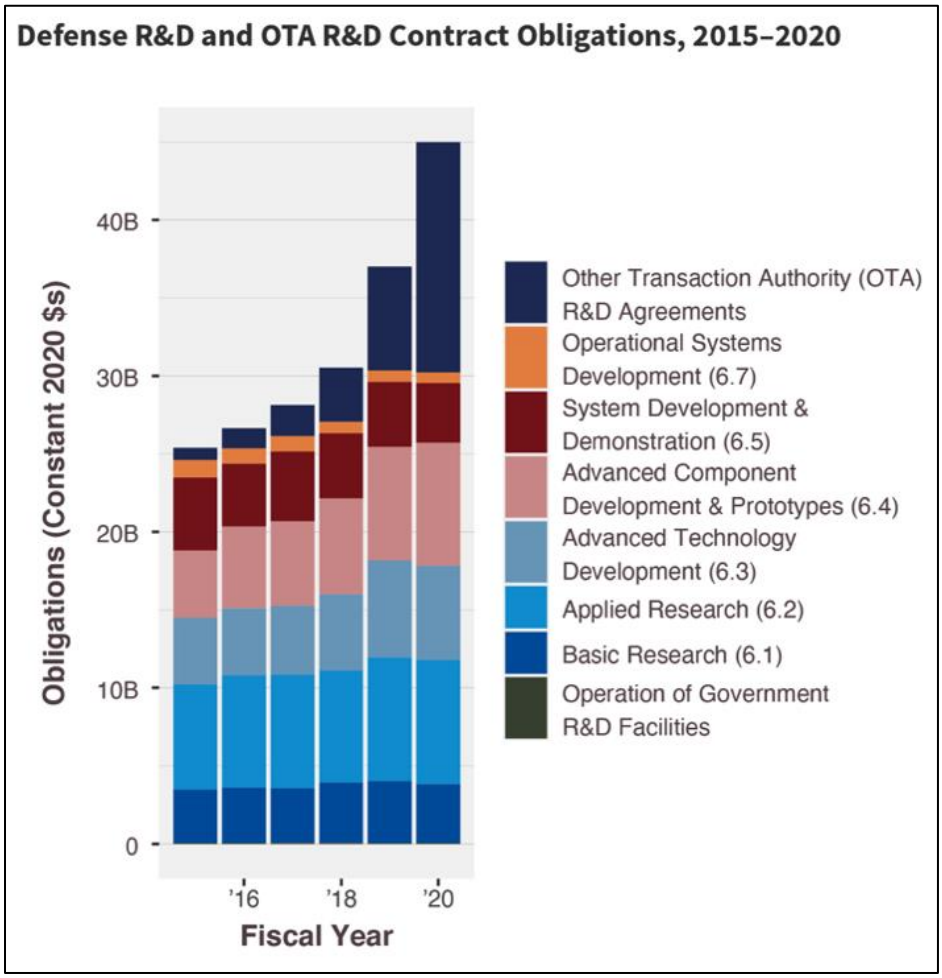
FY 2019 saw a sharp increase in OTA use across all military services, but the Army has been the heaviest user of OTAs. CSIS provides this OTA breakdown by Service for 2015-2019:



Source: CSIS[22]

[18] Rhys McCormick, "Department of Defense Other Transaction Authority Trends: A New R&D Funding Paradigm?," CSIS Briefs, *Center for Strategic and International Studies (CSIS)*, December 8, 2020.
[19] McCormick, "Department of Defense Other Transaction Authority Trends," *CSIS*, December 8, 2020.
[20] Rhys McCormick, "Department of Defense Other Transaction Authority Trends: A New R&D Funding Paradigm?," CSIS Briefs, *Center for Strategic and International Studies (CSIS)*, December 8, 2020.
[21] McCormick, "Department of Defense Other Transaction Authority Trends," *CSIS*, December 8, 2020.
[22] McCormick, "Department of Defense Other Transaction Authority Trends," *CSIS*, December 8, 2020.

DoD OTAs have mostly supported R&D activities. On average, 82% of DoD OTAs awarded from FY 2015 to FY 2019 were for R&D, compared to 9% each for products and services.[23] According to the December 2021 CSIS report, 2021 Defense Acquisition Trends: Topline DoD Trends after a Half Decade of Growth, OTA contract obligations account for a significant and increasing portion of the DoD's budget for contract spending, as indicated in the graph below.



Source: CSIS[24]

Per CSIS:

> OTA agreements are a vanguard for defense acquisition transformation, with defense OTA R&D spending surging 122 percent in FY 2020 while defense R&D contracting slightly

[23] McCormick, "Department of Defense Other Transaction Authority Trends," *CSIS*, December 8, 2020.
[24] Gregory Sanders, Won Joon Jang, and Alexander Holderness, "2021 Defense Acquisition Trends: Topline DoD Trends after a Half Decade of Growth," *Center for Strategic and International Studies (CSIS)*, December 2, 2021.

> decreased by 0.4 percent. The main driver of this jump was the U.S. government response to the Covid-19 crisis, but even discounting the Covid-19 bump, the past five years have seen a sustained increase in OTA R&D expenditures, suggesting that OTA agreements have become a rapid-acquisition substitute for some traditional defense R&D activities. This shift is the greatest within the Army, which accounted for 82 percent of OTA spending in FY 2020. [25]

The vast majority of funds obligated under DoD OTAs are under prototype OTAs. The table below shows dollars obligated by OTA type for consortia-awarded OTAs. (Note that the influence of COVID-19-related projects makes it difficult to draw conclusions about the increase in production OTAs beyond this time frame.)

Table 2: Dollars Obligated to DoD's Consortia-Based OTAs by OTA Type, Fiscal Year 2019-2021 (in Millions)

OTA type	2019	2020	2021	Total 2019-2021
Prototype	5,205.5	12,623.8	6,444.1	**24,273.4**
Research[a]	12.6	12.3	9.7	**34.6**
Production	0.4[b]	8.5	21.0	**29.9**
Total	**5,218.5**	**12,644.6**	**6,474.8**	**24,337.9**

DOD = Department of Defense

OTA = other transaction agreement

Source: GAO analysis of DOD, Federal Procurement Data System (FPDS), and industry data. | GAO-22-105357

Note: Obligation amounts were adjusted for inflation using the Fiscal Year 2021 Gross Domestic Product Price Index.

[a]All research OTA obligations are from one Navy OTA for shipbuilding research.

[b]Fiscal year 2019 obligations reported for production OTAs are from June 29, 2019 through September 30, 2019, because DOD did not begin collecting this data in FPDS until June 29, 2019.

Source: GAO, 2022

Recent Developments

Expanded use of OTAs appears to be a priority of the Trump administration. First, Software acquisitions are expected to increasingly use OTs, as a memorandum issued by DoD in March 2025 directed that the DoD components adopt the Software Acquisition Pathway as the "preferred pathway for all software development components of business and weapon system programs" and that Commercial Solutions (CSOs) and Other Transactions be used "as the default solicitation and award approaches."[26] There is no dollar-value limit for software OTA. [27] Second, Executive Order 14265: Modernizing

[25] Sanders, Jang, and Holderness, "2021 Defense Acquisition Trends: Topline DoD Trends after a Half Decade of Growth," *CSIS*, December 2, 2021.

[26] Secretary of Defense, Memorandum for Senior Pentagon Leadership Commanders of Combatant Commands Defense Agency and DoD Field Activity Directors, "Subject: Directing Modern Software Acquisition to Maximize Lethality," March 6, 2025.

[27] John Harper, "Hegseth issues edict on DOD software acquisition," *DefenseScoop*, March 7, 2023.

Defense Acquisitions and Spurring Innovation in the Defense Industrial Base, issued in April 2025, directs DoD to make a number of acquisitions reforms focused on improving speed and flexibility, including prioritizing CSOs and OTs in future procurements.[28]

Prototype OTs

DoD has experienced significant growth in the use of OTs for prototype projects over the last 5 fiscal years (2017-2022), according to an April 2023 report from OUSD (A&S). (While the table below shows a peak in total dollars obligated in FY 2020, it should be noted that over half (52%) of OT obligations during that year were related to COVID-19 efforts.[29])

Table 3: DoD Prototype OTs, FY 2017-2022

Department of Defense		
Fiscal Year	Total Actions	Total Dollars
2017	496	$2,200,262,428
2018	808	$3,982,545,323
2019	1,702	$7,378,804,576
2020	3,234	$16,023,234,473
2021	4,086	$14,291,798,136
2022	4,391	$10,696,967,709

Source: OUSD A&S, 2023

In FY 2022, the most recent year for which data was available, OUSD (A&S)'s analysis found that 50% of OT prototype project obligations were awarded to consortia and 50% to entities other than consortia. By federal agency in FY 2022, the Army accounted for 56% of obligations, the Navy and Air Force for 13% each, and the Space Development Agency for 6%, followed by about a dozen agencies accounting for lesser portions.[30]

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[a]Marcos Gonzalez, "Other Transaction Authority Agreements: DoD Aims for Faster, Flexible, and Innovative Procurement," *GovSpring Legal*, May 7, 2025.

[29] DoD OUSD(A&S)), "Report to Congress: On the Use of Other Transaction Authority for Prototype Projects in FY 2022," April 2023, 3.

[30] DoD OUSD(A&S)), "Report to Congress: On the Use of Other Transaction Authority for Prototype Projects in FY 2022," April 2023, 3.

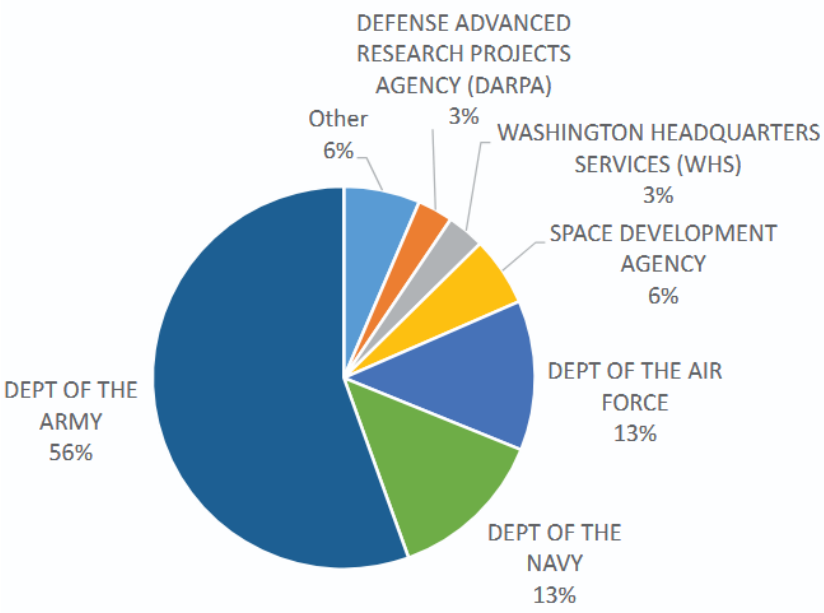

Figure 2: FY 2022 Obligations by Contracting Agency

Source: OUSD A&S, 2023

The OUSD (A&S) report states, however, that "Army obligations are higher than the other components because they awarded OTs on behalf of others, in some cases through Army-awarded consortia OTs that components can leverage to meet their own requirement."[31] 94% of funds obligated in FY 2022 were obligated to non-traditional contractors. [32] (In the case of consortia, the primary contractor's status was considered.)[33]

Army OTAs

The Army remains the predominant awarder of OTAs. The Army has a Center of Excellence for OTAs – the Army Contracting Command New Jersey (ACC-NJ) – along with several other Army contracting offices executing OTAs. [34] OTAs are sometimes mentioned within Army budget Program Element (PE) descriptions. The Army FY 2025 Budget Justification Book for RDT&E (Budget Activity 4B) cites the use of OTAs 59 times.

[31] DoD OUSD(A&S), "Report to Congress: On the Use of Other Transaction Authority for Prototype Projects in FY 2022," April 2023, 4.
[32] "As defined in 10 U.S.C. §3014, a non-traditional defense contractor is an entity that is not currently performing and has not performed, for at least the one-year period preceding the solicitation of sources by the DoD for the procurement or transaction, any contract or subcontract for the DoD that is subject to full coverage under the cost accounting standards (CAS)" (DAU).
[33] DoD OUSD(A&S), "Report to Congress: On the Use of Other Transaction Authority for Prototype Projects in FY 2022," April 2023, 7.
[34] Rhys McCormick, "Department of Defense Other Transaction Authority Trends: A New R&D Funding Paradigm?," CSIS Briefs, *Center for Strategic and International Studies (CSIS)*, December 8, 2020.

The following example from the CR4 / STE One World Terrain (OWT) project, the schedule provides an example of how an OTA was used to support an Army initiative. It also depicts overlapping use of prototyping and follow-on production OTAs. The OWT project's purpose is to modernize the 3D global terrain generation capability used in the Army's Synthetic Training Environment (STE) "to reflect the complexities of the operational environment."[35]

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		**Date:** March 2024
Appropriation/Budget Activity 2040 / 4	**R-1 Program Element (Number/Name)** PE 0604121A / *Synthetic Training Environment Refinement & Prototyping*	**Project (Number/Name)** CR4 / *STE One World Terrain (OWT)*

B. Accomplishments/Planned Programs ($ in Millions)	**FY 2023**	**FY 2024**	**FY 2025**
Funding will support the further automation of OWT. Additionally, base funding will develop advanced capabilities to replicate complex environments such as urban terrain with dense infrastructure and power grids. Also, base funding will continue efforts to integrate OWT 3D terrain data into the Synthetic Training Environment (STE) family of programs. ***FY 2025 Plans:*** Funding will support the continued automation of OWT feature extraction and attribution as well as program management costs. In addition, OWT will begin to develop advanced capabilities that allow user-generated terrain captures to be incorporated into the OWT repository and standard commercial tools and technologies to be used for geospatial data editing. Also, base funding will continue efforts to improve OWT 3D terrain data integration into the Synthetic Training Environment (STE) family of programs. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease from FY2024 to FY2025 is due to scaling down the efforts to automate OWT capability and improve OWT 3D terrain data for integration into STE family of programs.			
Accomplishments/Planned Programs Subtotals	1.336	13.192	11.350

C. Other Program Funding Summary ($ in Millions)
N/A
Remarks

D. Acquisition Strategy
The OWT requirements are codified in the STE-SW abbreviated Capabilities Development Document (A-CDD) version 2, approved 2 June 2020. OWT was one of five (5) Other Transaction Authorities (OTAs) awarded in FY 2019 in support of the STE prototype initiatives which included: STE-SW (Training Simulation Software/ Training Management Tool (TSS/TMT) and One World Terrain (OWT)), Reconfigurable Virtual Collective Trainer (RVCT), Live Training Systems (market research only), and Solider Virtual Trainer (SVT) weapons optimization (market research only). The Prime(s) and Sub-vendors execute the STE agreement(s) through Development, Security, and Operations (DevSecOps) processes. Vendors continually include the Government and stakeholders in the development process. This process ensures all stakeholders have early input into modular design efforts to support accelerated integration of STE family of programs.

In June 2021, OWT was designated as a software intensive program and entered the Software Acquisition Pathway as a component of the STE-SW Family of Programs.

OWT continues to develop prototype capabilities using the OTA awarded in FY2019 and conduct evaluations of the capability and terrain data products through technical assessments, Soldier Touch Points, test events, and Operational Assessments/Demonstrations held in concert with TSS/TMT. OWT products will be integrated with the TSS/TMT as the core information system for the STE Family of Programs.

PE 0604121A: *Synthetic Training Environment Refinemen...* **UNCLASSIFIED** Volume 2b - 212
Army Page 21 of 43 R-1 Line #81

Source: U.S. Army[36]

[35] DoD, "FY 2025 Army Budget Estimates, RDT&E – Volume II, Budget Activity 4B," Volume 2b, March 2024, 211 (document page 235).
[36] DoD, "FY 2025 Army Budget Estimates, RDT&E – Volume II, Budget Activity 4B," Vo. 2b, March 2024, 212.

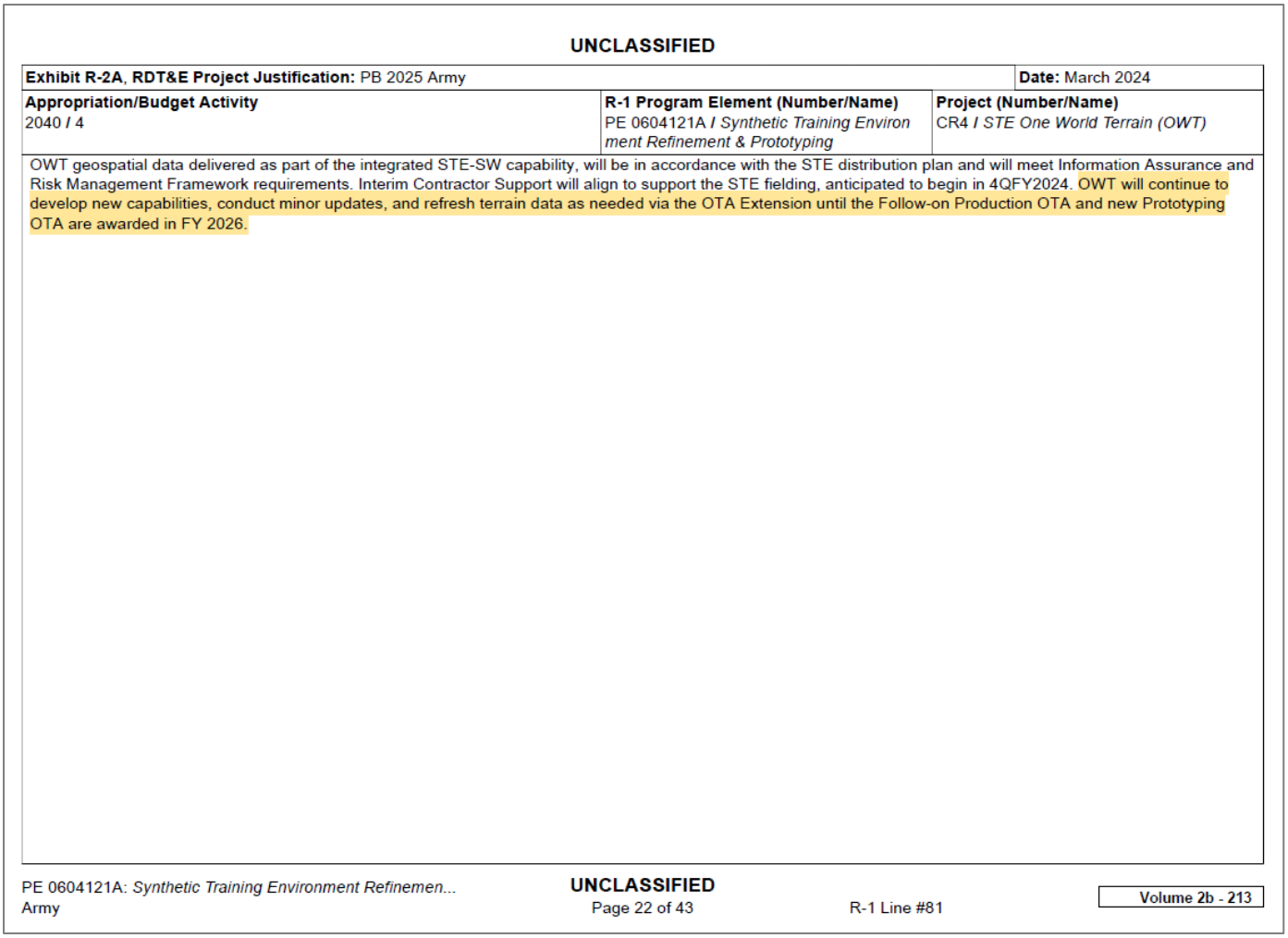

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 4	**R-1 Program Element (Number/Name)** PE 0604121A / *Synthetic Training Environment Refinement & Prototyping*	**Project (Number/Name)** CR4 / *STE One World Terrain (OWT)*

OWT geospatial data delivered as part of the integrated STE-SW capability, will be in accordance with the STE distribution plan and will meet Information Assurance and Risk Management Framework requirements. Interim Contractor Support will align to support the STE fielding, anticipated to begin in 4QFY2024. OWT will continue to develop new capabilities, conduct minor updates, and refresh terrain data as needed via the OTA Extension until the Follow-on Production OTA and new Prototyping OTA are awarded in FY 2026.

PE 0604121A: *Synthetic Training Environment Refinemen...* UNCLASSIFIED Volume 2b - 213
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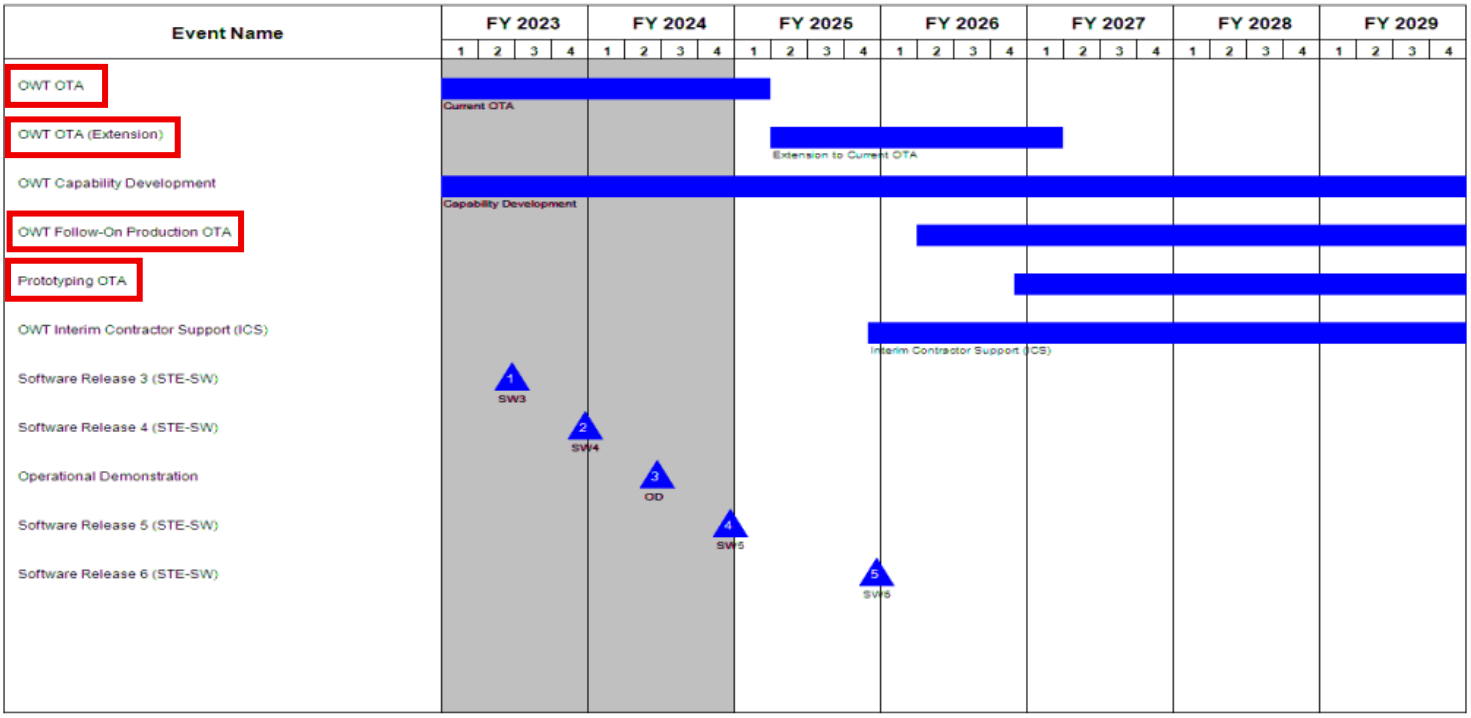
Source: U.S. Army[37]

[37] DoD, "FY 2025 Army Budget Estimates, RDT&E – Volume II, Budget Activity 4B," Vo. 2b, March 2024, 213.

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 4	**R-1 Program Element (Number/Name)** PE 0604121A / *Synthetic Training Environment Refinement & Prototyping*	**Project (Number/Name)** CR4 / *STE One World Terrain (OWT)*



Source: U.S. Army[38]

[38] DoD, "FY 2025 Army Budget Estimates, RDT&E – Volume II, Budget Activity 4B," Vo. 2b, March 2024, 216.

3.0 Individual OTA Consortium Profiles

Using Deltek GovWin IQ's list of consortia and their corresponding OTAs as a starting point (see below), this section briefly individually profiles a selection of 22 major consortia by identifying:

- Technology areas of focus
- Primary government partners (DoD service/component or other federal agency)
- Membership (eligibility, dues, and makeup, where possible)
- Bid opportunities (frequency, volume)
- Awards (number, amounts, recipients).

Table 4: Individual, Major Consortia & OTAs Identified by GovWin IQ (Aug. 2025)

Consortia Name	OTA Name(s)	OTA Number
America's Datahub Consortium (ADC)	America's Datahub Consortium (ADC) OTA	Not known
Biopharmaceutical Manufacturing Preparedness Consortium (BioMaP)	Biopharmaceutical Manufacturing Preparedness (BioMaP) Consortium OTA	75A50123D00003
Consortium for Command, Control, Communications in Cyberspace (C5)	Command, Control and Communications in Cyberspace (C5) OTA	W15QKN1795555
Consortium for Energy, Environment and Demilitarization (CEED)	Consortium for Energy Environment and Demilitarization (CEED) OTA	W9132T209D001
Countering Weapons of Mass Destruction (CWMD) Consortium	Countering Weapons of Mass Destruction OTA in support of the JPEO-CBRND Office	W15QKN1891004
Defense Automotive Technologies Consortium (DATC)	Automotive Cyber Security, Vehicle Safety Technologies, Vehicle Light Weighting, Autonomous Vehicles and Intelligent Systems, Connected Vehicles, and Advanced Energy Storage Technologies	W56HZV1690001
Defense Electronics Consortium (DEC)	Defense Electronics Consortium (DEC) OTA	W52P1J2193008
Defense Industrial Base Consortium (DIBC)	Defense Industrial Base Consortium (DIBC) OTA	HQ0034249C00B
Expeditionary Mission Consortium	Expeditionary Mission Consortium OTA	N001642490001
Information Warfare Research Project (IWRP) Consortium	Information Warfare Research Project OTA	N652362290001, N652362490003
Maritime Sustainment Technology and Innovation Consortium (MSTIC)	Maritime Sustainment Technology and Innovation Consortium (MSTIC) OTA	N644982190001
Medical CBRN Defense Consortium	Medical Countermeasure Systems OTA	W15QKN1691002
Medical Technology Enterprises Consortium (MTEC)	Medical Technology Enterprise Consortium (MTEC) OTA	W81XWH1590001
National Advanced Mobility Consortium (NAMC)	Ground Vehicle Systems OTA	W15QKN1791025

National Armaments Consortium (NAC)	Naval Energetic Systems and Technologies (NEST) OTA	N001742090001
	DoD Ordnance Technology Consortium (DOST) OTA	W15QKN1891008
	Aviation and Missile Technology Consortium (AMTC) OTA	W9124P1990001
National Security Technology Accelerator (NSTXL)	Space Enterprise Consortium (SpEC)	FA88142190001
	Strategic and Spectrum Missions Advanced Resilient Trusted Systems (S^2MART) OTA	N001641990001
National Spectrum Consortium (NSC)	Spectrum Forward OTA	W15QKN2195599
Naval Aviation Systems Consortium (NASC)	Naval Aviation Systems Consortium (NASC) OTA	N004211990001
Naval Surface Technology and Innovation Consortium (NSTIC)	Naval Surface Technology Innovation Consortium (NSTIC) OTA	N001782494015
**Rapid Response Partnership Vehicle (RRPV)	Rapid Response Partnership Vehicle (RRPV) OTA	75A50123D00005
**Sensors, Communications and Electronics Consortium	Sensors, Communications and Electronics Consortium OTA	W909MY1890001
System of Systems Consortium (SOSSEC)	Supply Chain Consortium Initiative (SCCI) OTA	FA81091990001
	Air Force Life Cycle Management Center Consortium (AFLCMC/LP) Propulsion Consortium Initiative OTA (PCI 2.0)	FA86262490005
	Air Force Research Lab Open Technology and Agility for Innovation (AFRL OTAFI) OTA	FA87502199000
	U.S. Army Cyber Operations Broad Responsive Agreement (COBRA) OTA	W909MY229B001
	U.S. Army Engineer, Research & Development Center (ERDC) Military Engineering OTA	W912HZ1990001
	National Geospatial-Intelligence Agency (NGA) Office of Ventures and Innovation (OVI) OTA	Not known
	Air Force Life Cycle Management Center Consortium Initiative (ACI) OTA	FA86041994050
	*Air Force Life Cycle Management Center Consortium Initiative (AFLCMC/LPA) Propulsion Consortium Initiative (PCI) OT	FA86261791000
**Training & Readiness Accelerator II Consortium	Training and Readiness Accelerator II	W900KK2390001
Undersea Technology Innovation Consortium (UTIC)	Naval Undersea Warfare Center Other Transaction Authority Agreement for Undersea Technology Innovation OTA	N666041890001
**University Consortium for Applied Hypersonics	University Consortium for Applied Hypersonics OTA	HQ00342190007
Vertical Lift Consortium (VLC)	Aviation and Missile Technology Consortium OTA	W9124P1990001

* SOSSEC's site lists as a current OTA, but it appears to be expired. (Search fpds.gov for the OTA number.)

** Not individually profiled in this report.

Source: Deltek GovWin IQ, Federal Procurement Data System, and consortia websites

For further information, on individual contracts, one may search the Federal Procurement Data System (FPDS) by OTA number.

3.1 America's Datahub Consortium (ADC)

America's Datahub Consortium (ADC), associated with the America's Datahub Consortium Other Arrangement (OT) is sponsored by NSF and was awarded to Advanced Technology International (ATI) in September 2021.[39] ADC concentrates on the following technical areas:

- "Developing new ways of acquiring, cleaning, and standardizing data; combining multiple data sets; and linking data from various government and private sources to yield valuable insights into critical issues.
- Designing, building, and supporting cutting-edge data infrastructure that will increase our abilities to process and analyze data in real time, store data securely, and expand research access.
- Building even stronger data security capabilities to further increase privacy protections and public trust."[40]

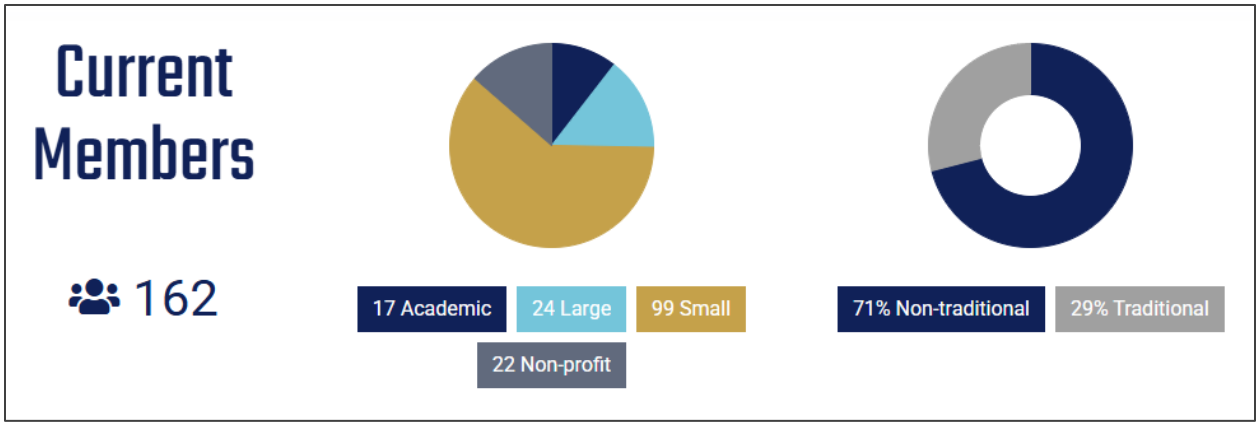
Consortium Partnership

The consortium is sponsored by **NSF's National Center for Science and Engineering Statistics (NCSES)**. No DoD entity is currently associated with it.

Membership

ADC currently has about **162 members**, as shown below. (See Current Members for a full list.)

[39] ATI, "America's DataHub Consortium formed to accelerate data and statistical information" (press release), *PR Newswire*, September 7, 2021.
[40] America's DataHub Consortium (ADC), "Consortium Membership Agreement," last updated August 2024, 2.



Source: ADC[41]

Eligibility criteria are laid out in ADC's most recent Consortium Membership Agreement, last updated in August 2024. The ADC is open to academic, for-profit, nonprofit, and non-traditional membership organizations. Among other requirements, members are obliged to:

> "a) Be a U.S. firm or institution organized or existing under the laws of the United States, its territories, or possessions. For the purposes of this CMA, any foreign firm or institution shall not be granted Membership.
>
> b) Not be barred or suspended from contracting with or receiving funds from the United States Government;
>
> c) Clearly demonstrate in their Membership application that they are capable of making a technical contribution in the [selected technical] objective areas [quoted above]."[42]

Membership fees are **$500** per year – but are prorated to $250 for the first year if an organization joins during April–September.[43] However, annual dues have been **waived for the period of October 2023–September 2025**. Anyone may view and respond to solicitations, but if selected, the entity must join ADC.[44]

Bid Opportunities

While ADC does not provide an archive of previous bid opportunities on their public site per se, ADC's 2023 and 2024 award listings do indicate which call awards originated from. In 2023, ADC issued about 13 bid opportunities, and in 2024, ADC issued about nine – for an **average of 11 per year**. Eight calls have been issued in 2025 so far. As of September 2025, there are no open bid opportunities.[45]

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[41] ADC, "Current Members," accessed September 8, 2025.
[42] ADC, "Consortium Membership Agreement," last updated August 2024, 2.
[43] ADC, "Consortium Membership Agreement," last updated August 2024, 2.
[44] ADC, "Frequently Asked Questions," accessed September 8, 2025.
[45] ADC, "Awards," accessed September 8, 2025.

Awards

Within the last 3 calendar years (2022–2024), ADC issued 31 awards, for an **average of 10 per year**. Amounts ranged from $184,000 to $9.0 million, but only six of the 31 awards were worth $1 million or more. Awardees in 2022-2024 were:

- Accenture Federal Services LLC
- BrightQuery, Inc. (x3)
- Clarivate (x2)
- Clinovations Government + Health
- The Coleridge Initiative, Inc. (x2)
- Duality Technologies
- HealthVerity, Inc.
- Knexus Research Corp. (x2)
- Mathematica, Inc. (x4)
- NORC at the University of Chicago (x6)
- Regents of the University of Michigan (Inter-University Consortium for Political and Social Research)
- RTI International (x4)
- University of Southern California
- The Urban Institute
- Westat.[46]

From the time ADC OTA was awarded in fall 2021 through early September 2025, ADC made a total of 39 awards. Eight awards were pending as of early September 2025.[47]

3.2 Biopharmaceutical Manufacturing Preparedness (BioMaP) Consortium

The Biopharmaceutical Manufacturing Preparedness (BioMaP) Consortium is sponsored by the Biomedical Advanced Research and Development Authority (BARDA) within HHS's Administration for Strategic Preparedness & Response (ASPR) and administered by Advanced Technology International (ATI). The BioMaP Consortium "is comprised of industry partners across the drug and vaccine manufacturing supply chain, including manufacturers of required raw materials and consumables, developers of innovative

[46] ADC, "Project Awards," accessed September 5, 2025.
[47] ADC, "Project Awards," accessed September 5, 2025.

manufacturing technologies, and suppliers of fill finish services."[48] It "seeks to expand the industrial and manufacturing base for medical countermeasures to include the requisite capabilities, flexibilities, and strategies to secure needed medical supplies to prepare the United States for future health security threats."[49]

The current membership application indicates the following priority areas.

- "**Industrial Base Expansion of Biomanufacturing Supply Chain** – Engage with the network of organizations and personnel that provide all goods and services in support of the entire biomanufacturing process, to include, but not limited to, raw materials, consumables, and fill-finish services.
- **Biomanufacturing Capacity Expansion and Reservation** – Prepare and provide timely, integrated, and sufficient medical countermeasures in response to emerging pathogens with pandemic potential through establishing, expanding and/or reserving drug substance and/or drug product manufacturing capacities.
- **Advanced Biomanufacturing Technologies** – Address new and emerging technologies, that enhance existing capabilities that increase the speed, quality, safety, yield, efficiency of the biomanufacturing process or the safety, quality, effectiveness, or availability of the resulting biopharmaceutical drug product."[50]

The current Biopharmaceutical Manufacturing Preparedness Consortium OTA (IDV #75A50123D00003) runs from September 2023 through **September 2033** and has a potential value of up to $784.2 million.

Consortium Partnership

The consortium is sponsored by the Pharmaceutical Countermeasure Infrastructure (PCI) Division and BioMaP branch of the Department of Health and Human Services' (HHS's) **Biomedical Advanced Research and Development Authority (BARDA)**.[51] No DoD entity is currently associated with it.

Membership

The BioMaP Consortium has about **350 members**. (See list of Current Members.) Membership is open to academic, nonprofit, and for-profit entities that clearly

[48] Biopharmaceutical Manufacturing Preparedness Consortium (BioMaP-Consortium), "About the BioMaP-Consortium," accessed September 8, 2025.
[49] BioMaP-Consortium, "About the BioMaP-Consortium," accessed September 8, 2025.
[50] BioMaP-Consortium, "Member Application," accessed September 8, 2025.
[51] BioMaP-Consortium, "Articles of Collaboration," last updated October 25, 2023, 1.

demonstrate their ability to contribute to the BioMaP Consortium's technical objectives and other relevant domains to support the needs of the U.S. government.[52]

International entities are eligible, but they must comply with all applicable export control laws and regulations (e.g., ITAR) and demonstrate:

> "Commitment to domestic U.S. investment for work executed under the Consortium (e.g. infrastructure, manufacturing, technology development, etc.); International sourcing is acceptable, when necessary, but commitment to US domestic supply sourcing to the maximum practical extent is desired."[53]

To be eligible, entities also must "not be barred or suspended from contracting with or receiving funds from the U.S. Government" and "not be included on the U.S. Department of Treasury and/or Department of Commerce's prohibited source list of embargoed and sanctioned countries under their Project Agreements, nor utilize any such prohibited source in any work related to a USG funded Project Agreement under this Consortium."[54] **No membership dues** are required to join.[55]

Bid Opportunities

Five bid opportunities were released in **2024**. Through August 2025, one bid opportunity has been issued in 2025.[56]

Awards

In 2024 and 2025 to date (the time frame for which award information is publicly available), 14 awards were made, ranging from $1.6 million–$32.4 million. Eight of the awards were worth more than $10 million. Recipients included:

- Amyris, Inc.
- Antheia, Inc.
- API Innovation Center
- Asimov, Inc.
- Capra Biosciences, Inc.
- CHO Plus, Inc.
- Corning, Inc.
- Manus Bio, Inc.
- Meissner Filtration Products, Inc.

[52] BioMaP-Consortium, "Articles of Collaboration," last updated October 25, 2023, 1.
[53] BioMaP-Consortium, "Articles of Collaboration," last updated October 25, 2023, 2.
[54] BioMaP-Consortium, "Articles of Collaboration," last updated October 25, 2023, 2-3.
[55] BioMaP-Consortium, "Articles of Collaboration," last updated October 25, 2023, 1.
[56] BioMaP-Consortium, "Opportunities: Closed Solicitations," accessed September 8, 2025.

- Novas Bio, Inc.
- Resilience Government Services
- Sterigenics Radiation Technologies LLC
- Steri-Tek LLC.[57]

3.3 Consortium for Command, Control, Communications in Cyberspace (C5)

The Consortium for Command, Control, Communications in Cyberspace (C5), managed by the Consortium Management Group (Washington, D.C.), is comprised of C4ISR and cyber technology companies and institutions whose technology capabilities span:

- Offensive and Defensive Cyberspace Operations
- Joint Multi-Domain Battlespace Awareness and Situational Understanding
- Command, Control, Communications, Computers (C4) and Spectrum Utilization
- Global Integrated Intelligence, Surveillance and Reconnaissance (GIISR)
- System-of-Systems Architecture
- Systems Integration
- Tactical and Strategic Networks
- Enterprise Systems
- Software and Hardware Technologies
- Artificial Intelligence/Machine Learning
- Forensics
- Real-time/Near Real-time Large Data Analytics and Virtualization
- Electronic and Cyber Warfare
- Positioning, Navigation and Timing
- Targeting
- Information Operations
- Intelligence Analysis, Exploitation and Dissemination
- Mobility and Autonomy
- Sensors, Data Fusion and Dissemination
- Modeling, Simulation and Training
- Special Operations Forces (SOF) Enabling Technologies.[58]

[57] BioMaP-Consortium, "Awards," accessed September 8, 2025.
[58] Consortium for Command, Control, Communications in Cyberspace (C5), "C5 Member Capability Domains," accessed September 8, 2025.

The current C5 OTA (IDV #W15QKN1795555) is an Army prototypes OTA that became effective in April 2017 and runs through **April 2027**, worth up to $2 billion.[59, 60, 61] According to C5, the Army Contracting Command–New Jersey (ACC-NJ) awarded C5 its initial, three-year OTA in July 2014, and in April 2018, the Marine Corps Systems Command signed a 5-year no-ceiling agreement for the use of OTA.[62]

Consortium Partnership

The current C5 OTA's contracting activity is the **U.S. Army Contracting Command, Picatinny Arsenal, NJ (ACC-NJ)**.[63]

Membership

C5 has about **1,598 members**. (See member list.) C5 states,

> "Membership is open to large and small businesses, nonprofits and academic institutions conducting research and development in the C4ISR and cyber technology domains. ... The requirements for membership are: to possess capabilities in and the ability to provide solutions within C5's technology domains, to agree to the terms of the Consortium Membership Agreement, and to pay **annual dues of $500**. Membership dues are waived for all new members in their first year, and academic institutions are exempt from membership dues."[64]

Non-U.S. entities may become members, but all must comply with applicable laws, such as U.S. export control and anti-trust laws.[65]

Bid Opportunities

C5 bid opportunities are not made public but may be accessed by consortium members.

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[59] "Award/Contract W15QKN-17-9-5555," Standard Form 26, issued by Army Contracting Command - NJ to Consortium Management Group Inc., signed April 20, 2017, 2.
[60] "Transaction Information: OT IDV ID: W15QKN1795555," *Federal Procurement Data System (FPDS)*, signed April 20, 2017, last modified April 12, 2019.
[61] C5 OTA Program Management Office, Program Executive Office Intelligence, Electronic Warfare & Sensors (PEO IEW&S) / Project Manager Electronic Warfare and Cyber (PM EW&C), "Army C5 Other Transaction Agreement (OTA) Update Brief" (presentation slides), April 25, 2023, last modified April 27, 2023.
[62] C5, "About C5," accessed September 8, 2025.
[63] "Award/Contract W15QKN-17-9-5555," Standard Form 26, issued by Army Contracting Command - NJ to Consortium Management Group Inc., signed April 20, 2017, 2.
[64] C5, "Become a Member," accessed September 8, 2025.
[65] C5, "Become a Member," accessed September 8, 2025.

Awards

During FY2022–FY2024, 27 awards were made, **averaging nine awards per year**. for amounts ranging from $423,496–$52.7 million. The amounts were distributed as follows:

>$1 million	4 awards
$1 million–$3 million	4 awards
$3.1 million–$10 million	11 awards
$10.1 million–$20 million	2 awards
<$20 million	6 awards [66]

Awardees included the following:

- 3dB
- Advanced Engineering Solutions & Services, LLC (AES2)
- Akamai Technologies, Inc.
- Aspen Consulting Group, Inc.
- Charon Technologies (CACI International)
- DRS Network & Imaging Systems, LLC (Leonardo DRS)
- Dynetics, Inc. (Leidos)
- General Dynamics Mission Systems, Inc.
- Lockheed Martin
- Mastodon Design
- MetroStar Systems
- Northrop Grumman
- Norwich University Applied Research Institutes (NUARI)
- Optiv (acquired by ClearShark in 2023)
- ClearShark
- Palantir Technologies Inc.
- PeopleTec, Inc.
- Praxis Engineering Technologies, LLC
- Research Innovations, Inc.
- Saab, Inc.
- Spectranetix, Inc. (acquired by Pacific Defense in 2025)
- Trideum Corporation
- Toyon Research Corporation
- University of Maine.[67]

[66] Consortium Management Group, "Project Awards," accessed September 8, 2025.
[67] Consortium Management Group, "Project Awards," accessed September 8, 2025.

3.4 Consortium for Energy, Environment and Demilitarization (CEED)

Managed by the Consortium Management Group, the Consortium for Energy, Environment and Demilitarization (CEED) provides an agile acquisition pathway to the Army Corps of Engineers and Marine Corps through OTA agreements. CEED is comprised of companies and institutions innovating in critical energy, environmental, and demilitarization technology,[68]whose capabilities span:

- Civil Works
- Energy Production, Storage or Distribution
- Advanced Manufacturing
- Resilient Facilities and Infrastructure
- Construction
- Emergency Operations
- Sustainability
- Unmanned Systems and Robotics
- Logistics
- Engineer Systems and Force Protection
- Demilitarization
- Environmental Quality
- Chemical, Biological, Radiological and Nuclear Threat Reduction
- Unexploded Ordnance Detection and Neutralization
- Weapon Systems, Fires and Ammunition
- Ground, Sea and Air Vehicles
- Project Finance
- Enabling Technologies and Training.[69]

The current CEED OTA (IDV #W9132T209D001) became effective in January 2020 and runs through **April 2028**, with a maximum value of $1.7 billion.[70] Formerly,

> "In April 2017, CEED entered into 10-year agreement with the Department of the Army to facilitate OTA awards for its members. In April 2018, the Marine Corps Systems Command signed a 5-year no-ceiling agreement with CEED for the use of OTA."[71]

[68] Consortium for Energy, Environment and Demilitarization (CEED), "Delivering Defense Innovation at the Speed of Business" (brochure), uploaded June 2025.
[69] CEED, "Member Capability Domains," accessed September 8, 2025.
[70] "Transaction Information: OTA IDV ID:W9132T209D001," *Federal Procurement Data System,* date signed January 17, 2020.
[71] Consortium Management Group, "About CEED," accessed September 8, 2025.

Consortium Partnership

The current CEED OTA's contracting activity is the **U.S. Army Corps of Engineers' Construction Engineering Research Laboratory (CERL)**, under the Engineer Research and Development Center.[72]

Membership

CEED has about 643 members. (See full member list.) Per CEED,

> "Membership is open to large and small businesses, nonprofits and academic institutions conducting research and development in the energy, environmental, and demilitarization technology domains. The requirements for membership are: to possess capabilities in and the ability to provide solutions within CEED's technology domains, to agree to the terms of the Consortium Membership Agreement, and to pay **annual dues of $500**. Membership dues are **waived for all new members in their first year**, and academic institutions are exempt from membership dues."[73]

Non-U.S. entities may become members, but all must comply with applicable laws, such as U.S. export control and anti-trust laws.[74]

Bid Opportunities

CEED bid opportunities are not made public but may be accessed by consortium members.

Awards

In FY2022–FY2024, CEED issued three awards, or **one per year on average**. The awardees and award amounts are as follows:

FY 2024:	–
FY 2023:	Gas Technology Institute ($2.5 million)
	Pacific Biodiesel Technologies ($5.2 million)
	SEL Engineering ($430,000)
FY 2022:	– [75]

[72] "Transaction Information: OTA IDV ID:W9132T209D001," *Federal Procurement Data System,* date signed January 17, 2020.
[73] CEED, "Become a Member," accessed May 28, 2025.
[74] CEED, "Become a Member," accessed May 28, 2025.
[75] Consortium Management Group, "Project Awards," accessed September 8, 2025.

3.5 Countering Weapons of Mass Destruction (CWMD) Consortium

The Countering Weapons of Mass Destruction Consortium (CWMD), administered by Advanced Technology International (ATI), is comprised of academic, nonprofit, and industry entities prepared to prototype developing technologies in the areas of:

- WMD consequence management and hazard mitigation
- Threats and vulnerabilities awareness, counter-proliferation technologies and capabilities
- Arms control technologies
- Chemical, biological, radiological, and nuclear (CBRN)
- Fundamental science, R&D, and experimentation of emerging technologies (advanced technology demonstrations).[76]

The current CWMD OTA (IDV #W15QKN1891004) became effective in November 2017, runs through **November 2027**, and has a potential value of $10 billion.[77] A total of about $1.2 billion in funding has been awarded as of early September 2025.[78]

Consortium Partnership

The Countering Weapons of Mass Destruction OTA supports the Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense (JPEO-CBRND).[79, 80]

Membership

The CWMD Consortium has about **407 members**, 84% of which are non-traditional suppliers. About 281 of CWMD's members are small businesses.[81] (See full member list.)

Per the Consortium Membership Agreement, membership is "open to and include[s] members from industry, academic research institutions, and nonprofit organizations" that are not barred from contracting with or receiving funds from the federal government are clearly demonstrate their ability to make a technical contribution to one of the CWMD focal areas:

- Consequence Management and Hazard Mitigation

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[76] Countering Weapons of Mass Destruction (CWMD) Consortium, "About CWMD," accessed September 8, 2025.
[77] "Transaction Information: OT IDV ID:W15QKN1891004," *Federal Procurement Data System (FPDS),* signed November 17, 2020*,* last modified June 13, 2019.
[78] CWMD Consortium, "Business Opportunities," accessed September 9, 2025.
[79] CWMD Consortium, "About CWMD," accessed September 8, 2025.
[80] "Transaction Information: OT IDV ID:W15QKN1891004," *FPDS,* signed November 17, 2020*,* last modified June 13, 2019.
[81] CWMD Consortium, "Current Members," accessed September 8, 2025.

- Threats and Vulnerabilities Awareness, Counter-Proliferation Technologies and Capabilities
- Arms Control Technologies
- Chemical, Biological, Radiological, Nuclear and High Explosives (CBRNE)
- Fundamental Science, Research and Development, and Experimentation of Emerging Technologies
- And other fields related to CWMD.[82]

Membership is "limited to US companies or US-based affiliates of foreign companies. Foreign companies cannot gain membership due to CWMD's member requirement to obtain a DD2345 (military critical technical data agreement)." The annual membership fee is **$250**.[83]

Bid Opportunities

For FY2022–FY2024, **7-8 bid opportunities were issued per year**. For FY2025, six solicitations have been released as of early September, and three more have the potential to be released before the close of the fiscal year.[84]

Awards

During FY2022 – FY2024, 40 awards were made, for amounts ranging from $49,000 to $54.7 million. Awardees included:

- Applied Research Associates, Inc.
- Asynchrony Solutions, LLC (World Wide Technology, Inc.)
- Avon Protection Systems, Inc.
- Battelle Memorial Institute
- BaySpec, Inc.
- Charles Stark Draper Laboratory, Inc.
- Clear Scientific, LLC
- DCS Corporation
- Design West Technologies, Inc.
- Excet, LLC (Precise Systems)
- Global Resonance Technologies, LLC
- HDT Expeditionary Systems, Inc.
- Integrated Solutions for Systems, Inc. (IS4S)
- JGW Group

[82] CWMD Consortium, "Consortium Membership Agreement," last modified September 2022.
[83] CWMD Consortium, "How to Join," accessed September 8, 2025.
[84] CWMD Consortium, "Business Opportunities," accessed September 9, 2025.

- KRI at Northeastern University, LLC (Kostas Research Institute)
- Luna Labs USA, LLC
- MRI Global
- NuMat Technologies
- Rensselaer Polytechnic Institute
- TDA Research, Inc.
- Tetramer Technologies, LLC
- Vectrus Mission Solutions Corporation (V2X)
- Vectrus Systems, LLC (V2X)
- Wasatch Photonics, Inc.[85]

3.6 Defense Automotive Technologies Consortium (DATC)

The Defense Automotive Technologies Consortium (DATC) is comprised of industry, academic, and nonprofit entities who have expertise in advanced automotive technologies, with "automotive" encompassing "all types of self-propelled vehicles from land to air to sea."[86] Organized to support the U.S. Army Ground Vehicle Systems Center (GVSC),[87] DATC is managed by SAE Government Technologies (SAE GT), an affiliate of the SAE Industry Technologies Consortia (SAE ITC).[88] DATC's technical areas of focus are:

- Automotive Cyber Security
- Vehicle Safety Technologies
- Vehicle Light Weighting
- Autonomous Vehicles and Intelligent Systems
- Connected Vehicles
- Advanced Energy Storage Technologies
- Propulsion Technologies
- Active Suspension Technologies.[89]

In September 2016, DATC was awarded a 10-year, $700 million base prototyping OTA (OT Award ID #W56HZV1690001) in the objectives areas of Automotive Cyber Security,

[85] CWMD Consortium, "Business Opportunities: Awards & Post-Submission Status," accessed September 9, 2025.
[86] SAE Government Technologies/Defense Automotive Technologies Consortium (DATC), "About DATC," accessed September 9, 2025.
[87] SAE Government Technologies/DATC, "About DATC," accessed September 9, 2025.
[88] SAE Government Technologies/DATC, "Defense Automotive Technologies Consortium," accessed September 9, 2025.
[89] SAE Government Technologies/DATC, "Defense Automotive Technologies Consortium," accessed September 9, 2025.

Vehicle Safety Technologies, Vehicle Light Weighting, Autonomous Vehicles and Intelligent Systems, and Connected Vehicles - later known as the Detroit Arsenal Automotive (DA^2) OTA. The DA^2 OTA initially ran through September 2023, but some projects have been extended through 2033.[90, 91, 92]

Consortium Partnership

The DA^2 OTA is sponsored by the **U.S. Army** Ground Vehicle Systems Center **(GVSC)** under the Combat Capabilities Development Command or DEVCOM.[93, 94]

Membership

No list of members is publicly available for DATC, SAE GT, or SAE ITC. While DATC consists of academic, nonprofit, and pro-profit industry entities, no details were found concerning eligibility or annual dues.

Bid Opportunities

Bid opportunity notices are not publicly available.

Awards

Awards information was not found on the open web.

3.7 Defense Electronics Consortium (DEC)

Defense Electronics Consortium (DEC)'s mission is "to strengthen the economic and force posture of the U.S. defense electronics industrial base and provide the DoD with deeper insights and connections to the U.S. electronics industry while providing industry with greater access to DoD opportunities."[95] DEC, managed by the nonprofit industry association U.S. Partnership for Assured Electronics (USPAE) and supported by Advanced Technology International (ATI),

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[90] "Transaction Information: OT Award ID:W56HZV1690001," *Federal Procurement Data System (FPDS),* signed September 22, 2016, last modified February 1, 2023.
[91] See for example: "Transaction Information: OT Award ID:W56HZV1690001 (P00066)," *FPDS,* signed November 21, 2019, last modified May 31, 2022; "Transaction Information: OT Award ID:W56HZV1690001 (P00049)," *FPDS,* signed April 26, 2019, last modified May 31, 2022.
[92] SAE International, "DATC Partners with the U.S. Army to Deliver Advanced Energy Storage Technologies" (press release), April 28, 2021.
[93] SAE Government Technologies/DATC, "About DATC," accessed September 9, 2025.
[94] "Transaction Information: OT IDV ID:W56HZV1690001," *FPDS,* signed September 22, 2016, last modified February 1, 2023.
[95] Defense Electronics Consortium (DEC), "DEC - Defense Electronics Consortium," accessed September 9, 2025.

> "Works with the DoD and other agency leadership to help identify challenges, needs, and opportunities in defense electronics. Projects selected by the government to address those issues can be funded through DEC under the authority of the Cornerstone OTA, which allows for research, prototyping and potential follow-on production where competition may be waived by the DoD, under the authority of the OTA enabling legislation. A secure member portal facilitates the entire process, which gives smaller and non-traditional defense suppliers and academia greater access to DoD opportunities."[96]

DEC has been awarded the Cornerstone prototype OTA for the **Lead-Free Electronics Initiative** (OT Award ID #W52P1J2193008), effective January 2021 through **January 2027**, for a maximum of $42.3 million.[97] The contract was awarded by the Cornerstone Consortium, which partners with the U.S. Army to "accelerate[ ] research, development, prototyping, demonstration, qualification and integration of manufacturing capabilities and capacities into the US [Defense] Industrial Base and supply chains" across 18 sectors. Under the Cornerstone OTA, DEC addresses Sector Area 13: Electronics, described as follows:

> "The industrial base consists of engineering companies that design integrated circuits (IC); front end companies that manufacture ICs; back end manufacturers that assemble ICs into packages; IC vendors that design and market ICs; systems integration companies that combine ICs into electronic systems; and others as applicable."[98]

Consortium Partnership

The Lead-Free Electronics Initiative OTA that DEC holds (OT Award ID #W52P1J2193008) is funded by the **U.S. Army Chemical Biological Center (CBC)** – formerly known as Edgewood Chemical Biological Center – under the Army's Combat Capabilities Development Command (DEVCOM). The contracting activity is the Army Joint Munitions Command (JMC).[99]

Membership

The Lead-Free Electronics Initiative is led by Purdue University, the University of Maryland, and Auburn University, and more than 12 system integrators participate.[100]

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[96] DEC, "About Us," accessed September 9, 2025.
[97] "Transaction Information: OT Award ID #W52P1J2193008," *Federal Procurement Data System (FPDS)*, signed January 20, 2021, last modified January 22, 2021.
[98] Cornerstone Consortium, "Cornerstone," accessed September 9, 2025.
[99] "Transaction Information: OT Award ID #W52P1J2193008," *FPDS*, signed January 20, 2021, last modified January 22, 2021.
[100] DEC, "Projects: Lead-Free Electronics Initiative," accessed September 9, 2025.

Otherwise, no details about the membership of DEC, how to join the consortium, or annual dues were found on the open web.

Bid Opportunities

Indication was found of only one solicitation, from 2021.[101]

Awards

Awards information was not found on the open web.

3.8 Defense Industrial Base Consortium (DIBC)

Managed by Advanced Technology International (ATI), the Defense Industrial Base Consortium (DIBC)'s mission is "to coalesce and expand the defense industrial base (DIB) in support of the MCEIP [DoD Manufacturing, Capability Expansion, and Investment Prioritization Directorate] critical subsectors."[102] These currently include:

- Strategic and critical materials
- Kinetic capabilities
- Energy storage and batteries
- Castings and forgings
- Microelectronics
- Workforce development.[103]

Additional areas of focus include small unmanned aerial systems, the submarine industrial base, the space industrial base, and emerging manufacturing technology.[104]

In December 2023, DIBC was awarded a 5-year OTA (IDV # HQ0034249C00B), to be completed in **December 2028** and worth up to $11.1 million. It includes the option to extend through December 2033, in which case it would be worth up to $22.1 million.[105] The Prototype Project Agreement (OT Award ID # HQ0034249CB35) awarded under the DIBC OTA in September 2024 runs through **September 2029** and has a maximum award

[101] DEC, "Projects: Lead-Free Electronics Initiative," accessed September 9, 2025.
[102] Defense Industrial Base Consortium (DIBC), "Defense Industrial Base Consortium," accessed September 9, 2025.
[103] DIBC, "About," accessed September 9, 2025.
[104] DIBC, "About," accessed September 9, 2025.
[105] "Transaction Information: OT IDV ID: HQ0034249C00B," *Federal Procurement Data System (FPDS)*, signed December 31, 2023, last modified January 4, 2024.

value of $45.9 million.[106] As of early September 2025, almost $1.6 billion has been awarded under the DIBC OTA.[107]

Consortium Partnership

The DIBC OTA is sponsored by DoD's **Manufacturing, Capability Expansion, and Investment Prioritization Directorate (MCEIP)**,[108] under the Deputy Assistant Secretary of Defense for Industrial Base Resilience (DASD Industrial Base Resilience), within the Office of the Under Secretary of Defense for Acquisition & Sustainment or OUSD(A&S).

Membership

DIBC has about 1,328 members, 1,092 of which are non-traditional suppliers. 1,005 are small businesses, 231 are large businesses, 55 are nonprofits, and 33 are academic institutions.[109] (See full member list.) To be eligible to join per the DIBC Consortium Membership Agreement, an organization must:

> "Clearly demonstrate in their membership application that they are capable of making a contribution in Defense Industrial Base Supply Chain Technologies; specifically; **kinetic capabilities (i.e., hypersonics), energy storage and batteries, castings and forgings, microelectronics, critical chemicals and minerals, Unmanned Aerial Systems (sUAS), Rare Earth Elements (REEs), critical materials, the submarine industrial base, the space industrial base, biomanufacturing, or other relevant subject, technology**, and capability domains as may be required in order to fully support the needs of the U.S Government."[110]

Membership is further "limited to US companies or US-based affiliates of foreign companies, and to international based companies in Australia, Canada, and the United Kingdom." Annual dues are $0 for the first year, and subsequently "may increase to $250."[111]

Bid Opportunities

In 2024, the only previous year for which solicitations are listed, **seven bid opportunities** were issued. There are no active or upcoming solicitations listed as of early September 2025.[112]

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[106] "Transaction Information: OT Award ID: HQ0034249CB35," *FPDS*, signed September 30, 2024, last modified November 25, 2024.
[107] DIBC, "Awards," accessed September 9, 2025.
[108] DIBC, "Defense Industrial Base Consortium," accessed September 9, 2025.
[109] DIBC, "Current Members," accessed September 9, 2025.
[110] DIBC, "Defense Industrial Base Consortium Membership Agreement," last modified January 2024, 2.
[111] DIBC, "How to Join," accessed September 9, 2025.
[112] DIBC, "Solicitations: Past Solicitations," accessed September 9, 2025.

Awards

In calendar year **2024**, the only previous year for which awards are listed, **37** **awards** were made. Amounts ranged from $912,000 to $45.1 million, but a majority (25 of the awards) were worth $1 million – $2 million.[113] 2024 awardees included:

- Air Protein
- Algenesis Corporation
- Amyris, Inc.
- Anduril Industries, Inc.
- Arcology, Inc.
- ARCTOS Technology Solutions, LLC
- Battelle Memorial Institute
- Bluestem Biosciences, Inc.
- C16 Biosciences, Inc.
- Cauldron Molecules, Inc.
- Cellibre, Inc.
- Checkerspot, Inc.
- CleanJoule Inc.
- Danimer Scientific, Inc.
- Debut Biotechnology
- DSM Nutritional Products, LLC (DSM-Firmenich)
- East Tennessee State University
- Erg Bio, Inc.
- EVERY Company
- Fermworx Holdings, LLC
- Genomatica, Inc.
- Industrial Microbes, Inc.
- Johns Hopkins University
- Liberation Labs Holdings, Inc.
- Lygos, Inc.
- Modular Genetics, Inc.
- Mussel Polymers, Inc.
- Onego Bio, Inc.
- Perfect Day, Inc.
- Savor Foods
- Solugen, Inc.
- Synonym, Inc.
- The Better Meat Co.
- The Fynder Group, Inc.

[113] DIBC, "Awards," accessed September 9, 2025.

- TTM Technologies
- Visolis, Inc.
- ZymoChem, Inc.[114]

One award has been made so far in 2025. Elk Creek Resources Corporation, a subsidiary of NioCorp Developments Ltd. (NASDAQ:NB), was awarded just under $10 million in August (see press release).[115]

3.9 Expeditionary Mission Consortium – Crane

The Expeditionary Mission Consortium – Crane or EMC^2, managed and operated by Advanced Technology International (ATI), is an academic and industry collaboration that exists to support the U.S. Navy's Naval Surface Warfare Center, Crane Division (NSWC Crane) through research (basic, applied, advanced) and prototype OTA activities. Specifically, the consortium "address[es] requirements in the areas of Power & Energy Systems; Specialized Munitions; Weapon Systems; Maneuver, Surveillance, & Engagement; Integrated Software; Command, Control, Communications and Information (C3i) & Cyber; and Electro-Optic Technology."[116] Its technical focus areas include:

- Verification and validation
- Artificial Intelligence/Machine Learning
- Multispectral Sensing
- Design Assurance
- Outreach and Standards
- Materials and Processes
- Manufacturing Technology
- Modeling and Simulation
- Spectrum Warfare Technologies
- Expeditionary Warfare Technologies.[117]

The base EMC OTA (OT IDV ID #N001642490001) became effective in October 2023 and runs through **October 2029**.[118]

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[114] DIBC, "Awards," accessed September 9, 2025.
[115] DIBC, "Awards," accessed September 9, 2025.
[116] Expeditionary Mission Consortium – Crane (EMC^2), "About," accessed September 9, 2025.
[117] EMC^2, "About," accessed September 9, 2025.
[118] "Transaction Information: OT IDV ID: N001642490001," *Federal Procurement Data System (FPDS),* signed March 21, 2024, last modified March 28, 2024; "Transaction Information: OT IDV ID: N001642490001," *FPDS,* signed July 15, 2024, last modified July 15, 2024.

Consortium Partnership

EMC^2 supports the U.S. Navy's **Naval Surface Warfare Center, Crane Division (NSWC Crane)**, under the Naval Sea Systems Command (NAVSEA).[119]

Membership

EMC^2 has about **427 members**, 82% of which are non-traditional suppliers. More than half (298) are small businesses, and 111 are large businesses.[120] Per the Consortium Membership Agreement, membership is "open to all U.S-based companies, innovators, research institutions and academic institutions guiding, conducting or using research and prototype development" in the technical areas listed above. Agencies or instrumentalities of foreign governments are not eligible to join. Members are required to maintain an active Military Critical Technical Data Agreement (Form DD 2345) certification with the U.S./Canada Joint Certification Office, under the Defense Logistics Information Service. There are **no annual dues** currently.[121]

Bid Opportunities

In **FY2024**, the only previous year for which solicitations are listed on the web open, **eight solicitations** were issued. For FY2025, five solicitations were issued as of early September 2025.[122]

Awards

For **FY2024**, the only previous year for which awards are listed on the public site, it appears that **seven awards** were made, for amounts ranging from $75,000 to $23.5 million. The 2024 awardees were ANDRO Computational Solutions LLC, Anduril Industries, Inc., Blackrock Strategy, LLC, Covan Group, LLC, the Dewey Electronics Corporation, Indigo industries, LLC, and SRI International.[123]

For **FY2025**, **six awards** have been made as of early September, for amounts ranging from $1.5 million to $20 million. Awardees include General Technical Services, LLC, Maritime Tactical Systems, Inc. (MARTAC), Systems Innovation Engineering, LLC, Textron Systems Corporation, TurnAround Factor, and Viasat, Inc.[124]

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[119] EMC^2, "About," accessed September 9, 2025.
[120] EMC^2, "Current Members," accessed September 9, 2025.
[121] EMC^2, "Expeditionary Missions Consortium - Crane Membership Agreement," last updated January 2025.
[122] EMC^2, "Solicitations," accessed September 9, 2025.
[123] EMC^2,"Awards," accessed September 9, 2025.
[124] EMC^2,"Awards," accessed September 9, 2025.

3.10 Information Warfare Research Project Consortium

Managed by Advanced Technology International (ATI), the Information Warfare Research Project Consortium (IWRP),

> "Engages industry and academia to develop and mature technologies in the field of Information Warfare that enhance Navy and Marine Corps mission effectiveness, focusing on underlying technologies that advance information warfare capabilities through a consortium that can support research, development and prototyping."[125]

Its technological focus areas are:

- Artificial Intelligence/Machine Learning
- Assured Command & Control (AC2)
- Assured Communications
- Autonomy
- Battlespace Awareness (BA)
- Cloud Computing
- Cyber Warfare
- Data Science/Analytic Technologies
- DevSecOps
- Electromagnetic Spectrum
- Enterprise Resource Tools
- Integrated Fires (IF)
- Model Based Systems Engineering (MBSE)
- Mobility
- On-Demand Manufacturing
- Optical Communications
- Quantum Technologies.[126]

Based on a keyword search for "Information Warfare Research Project" of the Federal Procurement Data System, there have been three IWRP prototype OTAs. The first (OT IDV ID #N652361890001) was signed in June 2018 and ran through June 2021, for a maximum value of $100 million. The U.S. Navy's Naval Information Warfare Center (NIWC) Atlantic was the contracting activity.[127] The second IWRP OTA (OT IDV ID #N652362290001), funded by the Naval Information Warfare Systems Command (NAVWAR), became effective November 2021 and runs through **November 2026**, with a

[125] Information Warfare Research Project (IWRP), "About IWRP Consortium," accessed September 9, 2025.
[126] IWRP, "About IWRP Consortium," accessed September 9, 2025.
[127] "Transaction Information: OT IDV ID: N652361890001," *Federal Procurement Data System (FPDS)*, signed June 26, 2018, last modified August 23, 2019.

maximum value of $500 million.[128] The third OTA (OT IDV ID #N652362490003), funded by the NIWC Atlantic, runs from June 2024 through **September 2034**.[129]

Consortium Partnership

IWRP states that it supports the **Navy and Marines**.[130] The two current OTAs found (see above) are funded by NAVWAR (Naval Information Warfare Systems Command) or the Naval Information Warfare Center (NIWC) Atlantic under NAVWAR.

Membership

IWRP has about **855 current members**, 79% of which are non-traditional suppliers. Over half (566) are small businesses, 204 are large businesses, 22 are nonprofits, and 11 are academic institutions.[131] (See full member list.)

Per the IWRP Consortium Membership Agreement, IWRP is "open to and include[s] Members from industry, academic research institutions, and non-profit organizations" who can, "clearly demonstrate in their membership application that they are capable of making a technical contribution" in one or more of the technical areas listed above.[132] Entities must be U.S.-based to qualify for membership, and "any agency or instrumentality of a foreign government shall not be granted membership." Moreover, members are required to maintain an active Military Critical Technical Data Agreement (Form DD 2345) certification with the U.S./Canada Joint Certification Office, under the Defense Logistics Information Service.

Annual dues range from $0 to $750 depending on the type of entity – $0 for academic institutions and nonprofits, **$250 for small businesses**, and $750 for large businesses. (Dues for the first year are prorated by how late in the fiscal year an organization joins.)[133, 134]

Bid Opportunities

IWRP does not publicly provide information on previous solicitations; membership is required to view them. However, IWRP does post current solicitations on its public site. The following is an example of an IWRP solicitation active in late May/early June.

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[128] "Transaction Information: OT IDV ID: N652362290001," *FPDS*, signed November 9, 2021, last modified July 7, 2022.
[129] "Transaction Information: OT IDV ID: N652362490003," *FPDS*, signed June 6, 2024, last modified January 15, 2025.
[130] IWRP, "About IWRP Consortium," accessed September 9, 2025.
[131] IWRP, "Current Members," accessed September 9, 2025.
[132] IWRP, "Consortium Membership Agreement," last modified December 19, 2024.
[133] IWRP, "Consortium Membership Agreement," last modified December 19, 2024.
[134] IWRP, "How to Join," accessed September 9, 2025.

	Title	Requiring Office	Release Date	Submission Deadline	Description
IWRP-25-PAC-2674B	Strategic Information Transmitted over HF (SITH) Kit	NIWC PAC	05/22/2025	06/05/2025	In a SATCOM denied environment, the challenge exists to deliver critical data from dismounted ashore warfighters to supporting Unit Level Ships. The US Navy is interested in modernizing shipboard communication systems to support "more users/more data" requirements coming from shore and ensure its traverse across DoD and NATO networks. The effort will focus on prototyping multi-user HF capabilities into quick-reaction portable kits that can be manifested on and off unit level ships that safely inter-connects into the ship's antenna and automated digital networking systems for ensuring delivery of data from shore.

Source: IWRP (5/29/2025)[135]

Awards

IWRP does not publicly provide information on awards issued.

3.11 Maritime Sustainment Technology and Innovation Consortium (MSTIC)

The Maritime Sustainment Technology and Innovation Consortium (MSTIC), managed by Advanced Technology International (ATI), "focus[es] on innovative sustainment solutions to effectively address current and future security threats in maritime environments" in support of the U.S. Navy's Naval Surface Warfare Center, Philadelphia Division (NSWCPD), under the Naval Sea Systems Command (NAVSEA).[136] MSTIC's technology topic areas are:

- COTS obsolescence and tech refresh product development
- Data transformation
- Cyber
- Fleet information technologies
- Waterfront industrial support operations
- Develop asset fabrication, revitalization (remanufacturing) & packaging innovations
- Logistic & supply chain management
- R&D.

MSTIC's specific technology focus areas are:

- 3D Printing/Additive Manufacturing

[135] IWRP, "Opportunities," accessed May 29, 2025.
[136] Maritime Sustainment Technology and Innovation Consortium (MSTIC), "Tech Areas," accessed September 9, 2025.

- AC Power Generation
- Air Conditioning & Refrigeration
- Air Handling (Fans, blowers, dampers, ducting, etc.)
- Artificial Intelligence
- Breathing Air Purification
- Conductors
- Controls
- Cybersecurity
- Electric Actuators
- EMI Hardening & Filtering
- Encryption
- Energy Storage (batteries, capacitors)
- Fault Protection
- Fuel Cells
- Gas Turbines
- Harmonic Filtering
- High Temperature Superconductivity
- Laser Scanning
- Motor Controllers
- MVDC Components and systems
- Networked Communications
- Neural Network/Machine Learning
- Parametric Scaling Software & Tools.
- Power Conversion
- Power Distribution
- Power System Modeling & Simulation
- Pumps
- Reverse Osmosis
- Shaft Seals
- Virtual Reality.[137]

The MSTIC prototype OTA (OT IDV #N644982190001) was awarded in June 2021 and runs through **June 2031**, with a maximum value of $230 million.[138, 139]

[137] MSTIC, "Tech Areas," accessed September 9, 2025.
[138] MSTIC, "Maritime Sustainment Technology and Innovation Consortium (MSTIC) forms to provide rapid access to state-of-the-art advancements in developing technologies" (news release), June 25, 2021.
[139] "Transaction Information: OT IDV ID: N644982190001," *Federal Procurement Data System*, signed July 4, 2021, last modified May 17, 2022.

Consortium Partnership

The Naval Surface Warfare Center, Philadelphia Division (NSWCPD) established the consortium.[140, 141]

Membership

MSTIC has about **665 members**, 80% of which are non-traditional contractors. 454 are small businesses, 185 are large businesses, 13 are nonprofits, and 11 are academic institutions.[142] (See full member list.) As stated in the MSITC Consortium Membership Agreement, MSTIC is " open to and include[s] Members from industry, academic research institutions, and non-profit organizations" that can "clearly demonstrate in their Membership application that they are capable of making a technical contribution in maritime sustainment" in the areas listed above.[143] There are **no annual membership dues**.[144, 145]

Foreign companies cannot become members. Per the consortium,

> "Membership in MSTIC is limited to US companies or US-based affiliates of foreign companies...due to MSTIC's requirement that members obtain a DD2345 (military critical technical data agreement). However, foreign companies can be subcontractors (team members) on projects awarded through the Other Transaction Agreement (OTA) as long as they can meet the terms and conditions of the OTA."[146]

Furthermore, no "agency or instrumentality of a foreign government" may become a member.[147]

Bid Opportunities

In FY2023 and FY2024, MSTIC issued about **four solicitations per year**. As of early September 2025, MSTIC has issued four solicitations in FY2025, and four bid opportunities are currently listed for FY2026.[148]

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[140] MSTIC, "MSTIC forms" (news release), June 25, 2021.
[141] MSTIC, "Maritime Sustainment Technology and Innovation Consortium," accessed September 9, 2025.
[142] MSTIC, "Current Members," accessed September 9, 2025.
[143] MSTIC, "Consortium Membership Agreement," last updated August 16, 2022.
[144] MSTIC, "Consortium Membership Agreement," last updated August 16, 2022.
[145] MSTIC, "How to Join," accessed September 9, 2025.
[146] MSTIC, "How to Join," accessed September 9, 2025.
[147] MSTIC, "Consortium Membership Agreement," last updated August 16, 2022.
[148] MSTIC, "Opportunities," accessed September 9, 2025.

Awards

In calendar years 2022–2024, IWRP made an average of **18** awards **per year**. In 2022, 14 awards were made, in 2023, 19 awards, and in 2024, 21 awards. From January 2025 through early September, 12 awards were made.[149]

There are about 77 awards made in 2022 through September 2025. Amounts ranged from $32,000 to $112 million, distributed as follows:

<$100,000	10 awards
$100,000–$999,999	35 awards
$1 million–$4.9 million	24 awards
$5 million–$9.9 million	3 awards
$10 million–$19.9 million	4 awards
$115 million	1 award[150]

Awardees during 2025-2022 included:

- 901D LLC (x2)
- Admartec, Inc.
- Alfa Laval, Inc.
- A-Tech, LLC, dba BlueHalo Labs
- BEC Systems LLC
- Big Metal Additive
- Bloomy Controls, Inc.
- Buffalo Pumps
- Calnetix Technologies LLC
- Carver Pump Company
- CEPEDA Associates, Inc.
- Cigent Technology, Inc.
- Clear Carbon & Components, Inc.
- Colvin Run Networks, Inc. (x2)
- Concurrent Technologies Corporation
- Curtiss-Wright (x2)
- Delphinus Engineering, Inc. (x4)
- DRS Laurel Technologies
- Energy to Power Solutions
- Engineered Coil Company dba DRS Marlo Coil
- Epsilon Systems Solutions, Inc.
- Exponent, Inc.

[149] MSTIC, "Awards," accessed September 10, 2025.
[150] MSTIC, "Awards," accessed September 10, 2025.

September 2025

- Fairbanks Morse Defense (x2)
- Fairmount Automation
- Fluid Conditioning Products, Inc.
- GE Aviation
- GE Power Conversion USA, Inc.
- Gibbs & Cox
- Gryphon Technologies
- Imperial Machine & Tool Co.
- ITL Solutions
- Keselowski Additive Manufacturing
- L3 Technologies, Inc - L3 KEO (x2)
- LIFT
- LMI Consulting LLC
- MacTaggart Scott USA LLC
- Magothy River Technologies LLC
- Marotta Controls, Inc.
- Martin Federal Consulting LLC
- Martinez and Turek, Inc.
- MPR Associates, Inc.
- MRL Materials Resources LLC
- Mussel Polymers, Inc.
- NAG Marine (x2)
- Nautical Structures Industries, Inc.
- Noblis, Inc. (x2)
- NWL, Inc.
- Peraton, Inc.
- RCT Systems, Inc.
- Relativity Space, Inc.
- Rockwell Automation
- Scientific Research Corp.
- Siemens Digital Industries Software
- Siemens Government Technologies, Inc. (x3)
- Solvus Global
- TDI Novus, Inc. (x2)
- The Ohio State University (x2)
- Tri-Tec Manufacturing
- VACCO Industries
- Ward Leonard, A Fairbanks Morse Company

- Woodward, Inc.[151]

3.12 Medical CBRN Defense Consortium (MCDC)

Managed by Advanced Technology International (AT), the Medical CBRN Defense Consortium (MCDC) is a research and prototype collaboration sponsored by the DoD Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense (JPEO-CBRND)'s Medical Countermeasures Systems (MCS) Joint Project Management Office.[152] Its purpose is to support DoD's "medical, pharmaceutical and diagnostic requirements as related to enhancing the mission effectiveness of military personnel."[153] The MCDC OTA (OT IDV #W15QKN1691002) went into effect in April 2016 and runs through **April 2036**, with a value of up to $16.7 billion.[154, 155] As of early September 2025, MCDC awarded over $7.8 billion through the OTA.[156]

MCDC focuses on technology areas directly related to the mission of JPEO-CBRND and its Medical Countermeasures Systems (MCS) Joint Project Management Office.[157] JPEO-CBRND's mission is to "provide integrated layered Chemical, Biological, Radiological, and Nuclear Defense capabilities to the Joint Force across warfighting functions and Combined Joint All-Domain Operations."[158] Examples of MCDC's areas of technical interest include:

- "Therapeutic MCM prototypes targeting viral, bacterial, and biological toxins and MCM enabling technologies
- Single and multiple-drug autoinjector delivery devices
- Vaccine-manufacturing platforms
- Prototypes for the prophylaxis, treatment and diagnosis of CBRN threats, including Acute Radiation Syndrome and chemical nerve agents
- Systems to increase the speed, accuracy, and confidence of agent identification and disease diagnosis
- Advanced development and manufacturing capabilities."[159]

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[151] MSTIC, "Awards," accessed September 10, 2025.
[152] Medical CBRN Defense Consortium (MCDC), "About MCDC," accessed May 29, 2025.
[153] MCDC, "Medical CBRN Defense Consortium," accessed September 10, 2025.
[154] "Transaction Information: OT IDV ID: W15QKN1691002," *Federal Procurement Data System (FPDS)*, signed April 8, 2016, last modified November 5, 2019.
[155] "Transaction Information: OT IDV ID: W15QKN1691002," *FPDS*, signed January 31, 2025, last modified April 5, 2025.
[156] MCDC, "Business Opportunities," accessed September 10, 2025.
[157] MCDC, "About MCDC," accessed May 29, 2025.
[158] Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense (JPEO-CBRND), "About," accessed September 10, 2025.
[159] MCDC, "About MCDC," accessed September 10, 2025.

Consortium Partnership

The MCDC is sponsored by the Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense (JPEO-CBRND) Medical Countermeasures Systems (MCS) Joint Project Management Office, under the Deputy Assistant Secretary of Defense for Chemical and Biological Defense. JPEO-CBRND's "acquisition authority comes from the Assistant Secretary of the Army for Acquisition, Logistics, and Technology (ASA(ALT))."[160]

Membership

MCDC has about **316 members**, 88% of which are non-traditional contractors. More than half (213) are small businesses, 40 are large businesses, 28 are academic institutions, and 22 are nonprofits.[161] (See full member list.) Per the group's Amended and Restated Articles of Collaboration, membership is open to industry (large and small companies), academic institutions, and nonprofits. All members must,

> "Clearly demonstrate in their Membership application that they have an interest in providing U.S. military forces and the nation safe, effective, and innovative medical solutions to counter CBRN threats; are capable of making a technical contribution to the advancement of CBRN technologies, and are willing to support the Medical CBRN Defense Consortium's goals and objectives."[162]

Membership is "limited to US companies or US-based affiliates of foreign companies," as MCDC members are required to maintain an active Military Critical Technical Data Agreement (Form DD 2345) certification with the U.S./Canada Joint Certification Office, under the Defense Logistics Information Service. **Annual membership fees are $250**.[163]

Bid Opportunities

For FY 2025 Q3 through FY 2027 Q4, there are **six solicitations** forecasted. As of May 29, 2025, there are no solicitations currently open. Few closed solicitations are listed on MCDC's public site.

Awards

27 awards were made during FY 2022 – FY 2024, for amounts ranging from $2,500 to $138.3 million. Awardees for those years included:

- Access to Advanced Health Institute (AAHI) (x2)

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[160] JPEO-CBRND, "Joint Program Executive Office for Chemical, Biological, Radiological and Nuclear Defense," accessed September 10, 2025.
[161] MCDC, "Current Members," accessed September 10, 2025.
[162] MCDC. "Amended and Restated Articles of Collaboration," last modified March 29, 2022.
[163] Medical CBRN Defense Consortium, "How to Join," accessed September 10, 2025.

- Alamgir Research, Inc. DBA ARI Science
- Arisan Therapeutics, Inc.
- AstraZeneca Pharmaceuticals
- Battelle Memorial Institute (x3)
- DynPort Vaccine Company LLC (General Dynamics)
- FLIR Detection, Inc. (Teledyne FLIR)
- Ginkgo Bioworks, Inc.
- IDBiologics, Inc.
- Just-Evotec Biologics, Inc. (x2) (Evotec)
- Latham BioPharm Group, Inc.
- Lumen Bioscience, Inc.
- Mapp Biopharmaceutical, Inc.
- Najit Technologies, Inc.
- Rigel Pharmaceuticals, Inc.
- Southwest Research Institute (SwRI)
- Texas Biomedical Research Institute
- The Charles Stark Draper Laboratory, Inc.
- The University of California, Los Angeles (UCLA)
- Tonix Pharmaceuticals, Inc. (x2)
- University of Texas Medical Branch (UTMB Health) at Galveston (x3)
- Wake Forest University
- Zeteo Tech, Inc.[164]

3.13 Medical Technology Enterprise Consortium (MTEC)

Operating under a prototype OTA with the U.S. Army Medical Research and Development Command (USAMRDC), the Medical Technology Enterprise Consortium (MTEC) is a "DoD-focused nonprofit that funds medical technology development" [165] aimed at developing or producing "new FDA-approved, licensed, cleared or authorized vaccines, biologics, drugs, medical software, devices and procedures to protect, treat, and optimize the health and performance of the U.S. military personnel."[166] To date, MTEC has awarded about $1.3 billion in funding across 358 projects.[167] It focuses on technologies in the following areas:

[164] MCDC, "Business Opportunities: Awards & Post-Submission Status," accessed September 10, 2025.
[165] Medical Technology Enterprises Consortium (MTEC), "Who We Are," accessed September 10, 2025.
[166] MTEC, "MTEC Consortium Member Agreement," last updated May 14, 2025.
[167] MTEC, " About Us," accessed September 11, 2025.

- **Military infectious diseases** (e.g., vaccines, wound infection, host-directed immunology/inflammation, biosurveillance)
- **Combat casualty care** (e.g., emergency care, en route care, blood product development, autonomous care, robotics and evacuation, semi-autonomous procedural support, wound healing without infection, neurotrauma/ traumatic brain injury, battlefield resuscitation, acute pain, hemorrhage control, hemorrhage detection and management, resuscitation and stabilization technology, wearable devices)
- **Military operational medicine** (e.g., musculoskeletal rehabilitation; musculoskeletal injury prevention, treatment, and rehabilitation; psychological and cognitive health and performance; environmental resilience; physiological health monitoring and performance; veterinary medicine; women's health; wearable devices; remote patient monitoring; telemedicine; medical decision assistance; ophthalmology; hearing)
- **Clinical and rehabilitative medicine** (e.g., regenerative medicine, host-directed immunology/inflammation, oral health, ophthalmology, hearing, transplantation, wearable devices, remote patient monitoring, telemedicine, medical decision assistance)
- **Medical training and health information science** (e.g., medical simulation and healthcare training, logistics, disaster management, mobile health apps, personalized medicine, telemedicine, electronic medical records, medical simulation/AR/VR, remote patient monitoring, digital healthcare hubs, smart hospitals, biophysics and biomedical modeling, medical decision assistance)
- **Chemical, biological, and radiological threats** (e.g., chemical, nuclear, radiation defense; host-directed immunology/inflammation).[168]

The MTEC OTA (OT IDV #W81XWH1590001) went into effect in August 2016 and runs through **September 2026**, with a maximum value of $37.9 million.[169, 170]

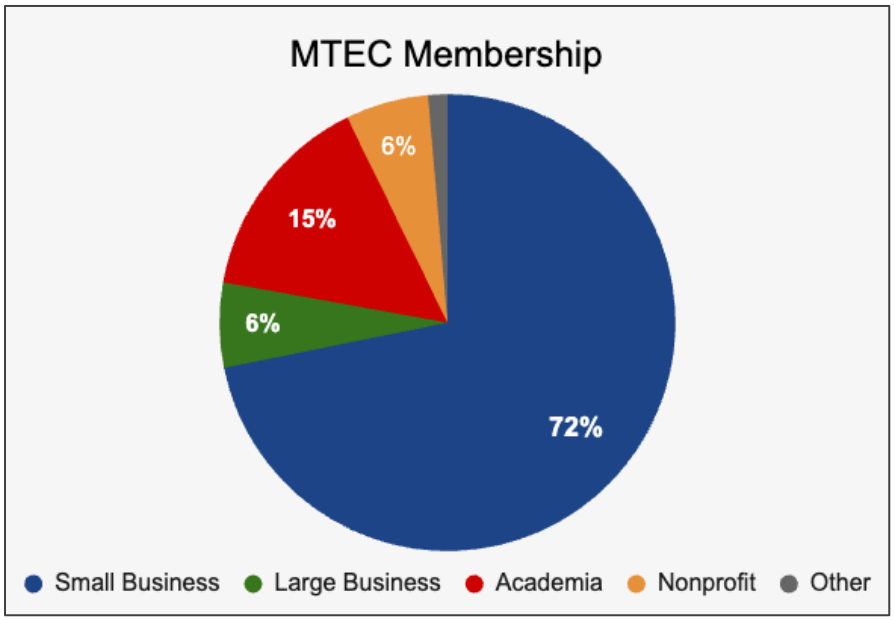
Consortium Partnership

The MTEC OTA's contracting activity is the U.S. Army Medical Research Acquisition Activity (USAMRAA), which is the contracting element of the **U.S. Army Medical Research and Development Command (USAMRDC)**. USAMRDC is part of the Defense Health Agency's (DHA) Medical Research & Development Directorate (RDA).[171, 172]

[168] MTEC, "Focus Areas," accessed September 10, 2025.
[169] "Transaction Information: OT IDV ID: W81XWH1590001," *Federal Procurement Data System (FPDS)*, signed August 12, 2015, last modified December 3, 2021.
[170] "Transaction Information: OT IDV ID: W81XWH1590001," *FPDS*, signed February 25, 2025, last modified February 26, 2025.
[171] U.S. Army Research Acquisition Activity, "What We Do," accessed September 10, 2025.
[172] MTEC, "MTEC Consortium Member Agreement," last updated May 14, 2025.

Membership

MTEC has about **678 members**. (See full membership list.) MTEC is open to three types of members – Innovators, Service Providers, and Healthcare Investors,[173] and member organizations include "industry (small and large business as well as subject matter experts), academia, and non-academic nonprofits."[174] A majority of members (72%) are small businesses.



Source: MTEC[175]

There are MTEC members in 19 different countries, and awards have been made not only to entities in the U.S. but also Canada, Australia, France, Germany, Ireland, and Israel.[176] An organization must be a member of MTEC to submit a proposal in response to one of MTEC's bid opportunities.[177]

Per the MTEC Consortium Membership Agreement, in addition to contributing constructively to MTEC, member organizations who receive a research project award under the MTEC OTA (OT IDV #W81XWH1590001):

> "Shall pay MTEC an amount equal to two percent (2.0%) of the total funded value of each research project award. Effective March 1, 2022, project award holders receiving funding for a single project exceeding $10M will pay 1% assessment for funded amounts in excess of the first $10M."[178]

[173] MTEC, "Join MTEC," accessed September 10, 2025.
[174] MTEC, "MTEC Consortium Member Agreement," last updated May 14, 2025.
[175] MTEC, " About Us," accessed September 11, 2025.
[176] MTEC, " About Us," accessed September 11, 2025.
[177] MTEC, "How to Submit Proposals," accessed September 11, 2025.
[178] MTEC, "MTEC Consortium Member Agreement," last updated May 14, 2025.

Bid Opportunities

In calendar years 2022-2024, 29 solicitations were issued, for an average of **9-10 per year**. Four solicitations have been issued in 2025, as of early September.[179]

Awards

About 134 awards, or **44 awards per year on average**, were issued in 2022, 2023, and 2024, for amounts ranging from $50,000 to $54.7 million. About 65% (86 awards) were worth more than $1 million.[180]Awardees for FY2022–FY2024 included:

Academic institutions

- The Board of Supervisors of Louisiana State University and Agricultural and Mechanical College
- California State University Long Beach Research Foundation
- Duke University
- George Mason University (x2)
- George Washington University
- The Regents of the University of California
- The Regents of the University of California (UC Davis)
- Harvard Medical School
- SUNY - University at Buffalo (UB)
- University of Alaska
- University of California, Los Angeles
- University of Colorado Anschutz Medical Campus
- University of Houston
- University of Iowa (x2)
- University of Montana
- University of North Carolina - Chapel Hill
- University of Pittsburgh (x4)
- University of Washington
- Wake Forest University Health Sciences

Companies & Nonprofits

- A10 Systems LLC d/b/a AiRANACULUS
- Advanced Materials and Devices, Inc. (x2)
- Altec, Inc. (x2)

[179] MTEC, "Solicitations," accessed September 10, 2025.
[180] MTEC, "Projects Awarded," accessed September 11, 2025.

- Applied Research Associates, Inc. (x5)
- ATD emolda
- A-Tech, LLC, dba BlueHalo Labs
- Battelle Memorial Institute
- BlueHalo Labs, LLC
- BioFire Defense LLC
- Cellphire Therapeutics
- CFD Research Corporation (x3)
- Circadian Positioning Systems
- Cohesys, Inc.
- CorNeat Vision, Ltd. (x2)
- Coruna Medical
- Crimson Government, LLC (x2)
- Critical Innovations LLC (x2)
- Deloitte Consulting
- Delta Development Team, Inc.
- Design Interactive, Inc.
- Diagnostic Biochips, Inc.
- Ejenta
- EuMentis Therapeutics, Inc.
- Evren Technologies Inc.
- Federal Strategies LLC
- GeneCapture, Inc.
- The Geneva Foundation (x3)
- Global Coalition for Adaptive Research
- Haima Therapeutics LLC
- The Henry M. Jackson Foundation for the Advancement of Military Medicine
- Hero Medical Technologies
- Inhalon Biopharma, Inc.
- International Fabric Machines (x2)
- JAG Consulting LLC
- Kendall Square Sciences
- KeriCure Incorporated
- Kowa Inc.
- Limax Biosciences, Inc.
- Lumen Bioscience, Inc. (x3)
- Massachusetts General Hospital
- Matregenix
- MLM Biologics, Inc.
- Moberg Analytics, Inc. (x2)

- Modulated Imaging, Inc.
- NervGen Pharma Corp.
- NIRSense LLC
- NOCTEM LLC
- NuShores Biosciences LLC
- Overjet, Inc.
- Pascal Medical Corporation
- Perceptive Medical, Inc.
- Phiex Technologies, Inc
- Phycin, Inc. (x2)
- Prytime Medical Devices, Inc.
- Purgo Scientific LLC
- Ragged Edge Solutions, LLC
- Repurposed Therapeutics, Inc. dba Defender Pharmaceuticals, Inc.
- Research Triangle Institute dba RTI International (x4)
- SelSym Biotech, Inc.
- Sense Diagnostics, Inc.
- Sibel Health, Inc.
- Snoretox Pty Ltd
- Soar Technology, Inc.
- Sonogen Medical, Inc.
- Southwest Research Institute (x2)
- Southwest Texas Regional Advisory Council
- Spectral MD Holdings
- SteriO3 LLC
- Surgibox Inc. (x2)
- Tanner Research, Inc.
- TDA Research, Inc. (x2)
- University of Nebraska Medical Center
- Vista LifeSciences, Inc.
- Vistendo, Inc. (x3)
- Vivonics Inc.[181]

3.14 National Advanced Mobility Consortium (NAMC)

National Advanced Mobility Consortium (NAMC) is one of the longest-serving DoD consortiums, with roots in the Robotics Technology Consortium (RTC), which formed in

[181] MTEC, "Projects Awarded," accessed September 10, 2025.

2008 and was awarded an Army OTA focused on ground robotics. Formerly awarded the New Ground Vehicle Systems (GVS) OTA, which expired in September 2023, the NAMC currently holds the more expansive Detroit Arsenal Innovation (DAI) OTA.[182, 183] The DAI OTA (OT IDV #W56HZV239D001), awarded in 2023, runs through **September 2028, with the option to extend through September 2033**. The DAI OTA is managed by the Army's Ground Vehicle Systems Center (GVSC) and contracted out of the ACC-Detroit Arsenal (ACC-DTA).[184, 185]

Having evolved over the years, NAMC's mission is "to foster member-driven innovations that ensure efficiency, effectiveness, and victory for the US and its partners across multi-domain security and defense operations," with a focus on ground mobility and related technologies [186] Under the DAI OTA, the consortium provides opportunities in 15 technology objective areas:

- Advanced energy storage
- Architecture & mobility
- Autonomy/Connectivity
- Cybersecurity
- External systems
- Fuels & lubes
- Lightweighting
- Modeling & simulation
- Mobility
- Petroleum & water systems
- Platforms
- Powertrain
- Safety technologies
- Survivability
- Testing & evaluation.[187]

Consortium Partnership

NAMC's Detroit Arsenal Innovation OTA is managed by the U.S. Army Combat Capabilities Development Command (DEVCOM) **Ground Vehicle Systems Center (GVSC)**

[182] National Advanced Mobility Consortium (NAMC), "Frequently Asked Questions," accessed September 11, 2025.
[183] NAMC, "About NAMC," accessed September 11, 2025.
[184] NAMC, "About NAMC," accessed September 11, 2025.
[185] "Transaction Information: OT IDV ID: W56HZV239D001," *Federal Procurement Data System (FPDS)*, signed September 1, 2023, last modified August 13, 2024.
[186] NAMC, "About NAMC," accessed September 11, 2025.
[187] NAMC, "Detroit Arsenal Innovation (DAI) Other Transaction Agreement (OTA)," accessed September 11, 2025.

in Warren, MI and contracted out of the Army Contracting Command - Detroit Arsenal (ACC-DTA).[188, 189] NAMC also maintains partnerships with DoD Science & Technology and acquisitions partners, such as PEO Ground Combat Systems (PEO GCS) and PEO Combat Support & Combat Service Support (PEO CS&CSS).[190]

Membership

NAMC's membership is comprised of about **562 organizations**, including both traditional and non-traditional defense contractors (NDCs) – large companies, small businesses, nonprofit organizations, and academic institutions. Small businesses and NDCs make up about 70% of the membership.[191, 192] (See full membership list.)

As with other consortia, NAMC vets members for technical ability and their eligibility to receive federal contracts, and member are required to maintain Military Critical Technical Data Agreement DD2345 Certification. Foreign companies are not eligible for membership, but their U.S. subsidiaries are.[193, 194] Moreover, "Foreign companies are allowed and encouraged to team with NAMC members on projects, but distribution statement waivers must be requested before any solicitation documents are shared with a foreign company." [195] Technical communities of interest/practice (COI/COP) coordinated by NAMC include the Ground Combat Systems (GCS) Common Infrastructure Architecture (GCIA) COI, Army Ground Autonomy COP, Robotic and Autonomous Systems (RAS) COI, and Vehicle Protection Systems (VPS) COI.[196]

Membership dues are **$500 per year**, prorated for new members based on the fiscal year of October 1 through September 30. Members are not subject to any other consortium fees.[197] To respond to NAMC bid opportunities, an organization must be a NAMC member is good standing.[198]

Bid Opportunities

In FY2022, 27 solicitations were released, in FY2023 21 solicitations, and in FY2024 34

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[188] NAMC, "About NAMC," accessed September 11, 2025.
[189] "Transaction Information: OT IDV ID: W56HZV239D001," *FPDS*, signed September 1, 2023, last modified August 13, 2024.
[190] NAMC, "Detroit Arsenal Innovation (DAI) Other Transaction Agreement (OTA)," accessed September 11, 2025.
[191] NAMC, "About NAMC," accessed September 11, 2025.
[192] NAMC, "Membership Directory," accessed September 11, 2025.
[193] NAMC, "About NAMC," accessed September 11, 2025.
[194] NAMC, "Frequently Asked Questions," accessed September 11, 2025.
[195] NAMC, "Frequently Asked Questions," accessed September 11, 2025.
[196] NAMC, "Communities of Interest," accessed September 11, 2025.
[197] NAMC, "Why Join NAMC," accessed September 11, 2025.
[198] NAMC, "BIDS Portal: The Detroit Arsenal Innovation (DAI) Other Transaction Agreement (OTA)," accessed September 11, 2025.

Members compete for projects as prime and have been solicited for over 400 unique projects by NAMC's government partners. Success stories can be found here.

All projects are listed on the website, and members are notified by e-mail as opportunities arise.

On the website, there are 4 open opportunities.

- Army Ground Autonomy Community of Practice (Due 8/23/29)
- APS COI Task Request (Due 7/21/25)
- Small Unmanned Ground Vehicles as Deployable Sensors (SUDs) (Due 6/12/25)
- Asia-Pacific Fuel Adapter Kit (Due 5/30/25)

There are 3 draft opportunities with undetermined due dates.

- Soft Skill (SK) Active Protection System (APS)
- Autonomous Decontamination System (ADS)
- Unmanned Systems (UxS) Autonomy System

There are currently 6 pending projects, which were all due 5/8/25.

Awards

According to NAMC's FY2024 Annual Report, "The first project award under the DAI OTA came in July 2024. NAMC competed 18 projects through the FY25 Annual Plan and awarded **7 projects in total FY24**."[199]

[199] NAMC, "FY24 Annual Report," December 2024, 11.

FY24 Project Awards:

RPP-24-D06	S-MET Inc II	ARV - $10.5M HDT Expeditionary Systems - $11.5M
RPP-24-D07	SPDRS	AEF - $175k HDT Expeditionary Systems - $200k
ADS Pitch Competition		QinetiQ - $75k Teledyne FLIR - $50k RTX - $25k

FY23 Project Awarded in FY24:

RPP-23-02	PB-NSCV	AM General - $2.3M Battelle -$2.1M Navistar Defense - $2.5M
RPP-23-04	CoVeR Year 5	GS Engineering - $499k SoarTech - $2.2M

Source: NAMC[200]

For a full list of awards NAMC has made to due – including pre-DAI OTA awards – see NAMC's Project Awards page.

3.15 National Armaments Consortium (NAC)

Established in 2000[201] and managed by Advanced Technology International (ATI), the National Armaments Consortium (NAC) is the "largest collaborative organization working with the DoD to develop armament technologies in support of our nation's security."[202] NAC's mission is to "foster collaboration between Government, Industry, and Academia to deliver dominant solutions to complex National Armament challenges."[203] NAC covers the following technology areas:

- Ammunition
- Demilitarization
- Directed Energy Warfare
- Enabling Technologies

[200] NAMC, "FY24 Annual Report," December 2024, 11.
[201] National Armaments Consortium (NAC), "National Armaments Consortium Member Agreement," September 2024, 3.
[202] NAC, "NAC," accessed September 11, 2025.
[203] NAC, "About NAC: NAC's Mission," accessed September 11, 2025.

- Energetic Materials
- Fuzes
- Hypersonics and Hypervelocity
- Information Operations
- Cyber Operations and Electronic Warfare
- ISR, Sensors and Sensor Systems
- Joint Enhanced Munitions; Manufacturing and Process Technology
- Multi-domain Battlespace Management
- Protection, Survivability, and Defense
- Rockets, Missiles and Bombs
- Warheads/Lethal Mechanisms
- Warrior as a System
- Weapon Systems.[204]

NAC is party to three OTAs through its participation in three other consortia – the Aviation & Missiles Technology Consortium (AMTC), DoD Ordnance Technology Consortium (DOTC), and Naval Energetic Systems and Technologies Program (NEST).

- **AMTC** seeks to advance Army aviation and is sponsored by the U.S. Army Aviation and Missile Research Development and Engineering Center (AMRDEC).[205]
- **DOTC** is sponsored by the Office of the Secretary of Defense (OSD) and is utilized by all Services and Defense Agencies for prototype design, development, and demonstration of armaments.[206]
- **NEST** aims to address significant energetic systems-related challenges for DoD Services and Agencies. NEST is sponsored by the Naval Surface Warfare Center Indian Head Division (NWSC IHD).[207]

Each of the three OTAs is further described below.

AMTC OTA

Managed by ATI (Advanced Technology International), the Aviation & Missiles Technology Consortium (AMTC) is a consortium comprised of NAC and the Vertical Lift Consortium (VLC). Per ATI, "This unique approach of leveraging two consortia into one (AMTC) was developed to specifically combine the distinct capabilities of vertical lift and armaments for the U.S. Army Combat Capabilities Development Command (DEVCOM) Aviation and Missile Center."[208] The AMTC OTA's purpose is "to develop and mature

[204] NAC, "FAQ," accessed September 11, 2025.
[205] NAC, "AMTC OTA – NAC," accessed September 11, 2025.
[206] NAC, "DOTC OTA," accessed September 11, 2025.
[207] NAC, "NEST OTA," accessed September 11, 2025.
[208] ATI, "Aviation & Missiles Technology Consortium," accessed September 11, 2025.

guided missile technologies, develop and transition Army aviation and missile manufacturing technologies, and integrate advanced technologies, techniques and processes into future effective weapon systems in support of US Army and DoD weapon systems.[209] AMTC's technology focus areas include:

Guided missiles

- Target Detection/Acquisition/Tracking Sensors
- Missile Electronics
- Seekers to Defeat Moving Targets and Air Defense Threats
- Guidance/Control for Improved Precision and Global Positioning System (GPS)-Denied Precisions
- Lethality Mechanisms
- Warheads
- Fuzes
- Payloads
- Radar
- Datalink and Communication
- Materials and Structures
- Power Systems
- Aerodynamics
- Navigation Systems
- Modeling and Simulation
- Energetics
- Component Cyber Security
- Propulsion Systems for Increased Range and Decisive Effects
- Missile Launchers
- Support Equipment

Manufacturing & enabling/disruptive technologies

- Innovation Enablers
- Additive Manufacturing
- High Energy Creation and Storage Systems
- Directed Energy
- Advanced Materials/Processes
- Advanced Manufacturing Techniques
- Manufacturing Cyber Security
- Modeling and Simulation
- Virtual Prototyping

[209] "Transaction Information: OT IDV ID: W9124P1990001," *Federal Procurement Data System (FPDS)*, signed March 12, 2019, last modified June 28, 2019.

- Robotics
- Automation
- High Temperature Materials
- Lightweight & Hybrid Materials
- Flexible Electronics
- Reclamation/Repair Technologies
- Open System Architectures for Enhanced Manufacturing Productivity (Digital Manufacturing and
- Industrial Internet of Things (IIoT))

Aviation

- Platforms/Materials/Structures
- Power Systems
- Engines/Propulsion Systems
- Drives/Rotors
- Mission Systems
- Avionics/Navigation
- Sensors Networks Data Link and Communication
- Survivability
- Sustainability
- Autonomy
- Manned/Unmanned Teaming (MUMT)
- Unmanned Aerial Vehicle (UAV)
- Component Cyber Security and Aviation Ground Support Equipment/Systems (AGSE).[210]

The Aviation and Missile Technology Consortium OTA (OT IDV #W9124P1990001), awarded in 2019, runs through **July 2028**. Its initial ceiling value of $2 billion has been raised to over $8.9 billion.[211, 212, 213]

DOTC

The DoD Ordnance Technology Consortium (DOTC), the "focal point for armaments system technology research and development,"[214] was commissioned as a DoD initiative in 2002 by the Under Secretary of Defense for Acquisition, Technology and Logistics (now

[210] AMTC, "Technology Areas," accessed September 12, 2025.
[211] ATI, "Aviation & Missiles Technology Consortium," accessed September 11, 2025.
[212] "Transaction Information: OT IDV ID: W9124P1990001," *Federal Procurement Data System (FPDS)*, signed March 12, 2019, last modified June 28, 2019.
[213] "Transaction Information: OT IDV ID: W9124P1990001," *FPDS*, signed May 2, 2025, last modified May 2, 2025.
[214] NAC/DOTC, "DOTC – DoD Ordnance Technology Consortium," accessed September 16, 2025.

known as the Office of the Under Secretary of Defense for Acquisition & Sustainment or OUSD(A&S)). DOTC is managed by the consortium management firm ATI (Advanced Technology International), and NAC is its industrial/academic component. DOTC's technology focus areas include:

- Ammunition
- Demilitarization
- Directed energy warfare
- Enabling technologies
- Energetic materials
- Fuzes
- Joint enhanced munitions
- Protection & survivability
- Rockets, missiles & bombs
- Sensors & sensor systems
- Warheads lethal mechanisms
- Weapons systems.[215]

The DOTC OTA (OT IDV #W15QKN1891008), awarded in April 2018, runs through **April 2028** and has a ceiling value of $10 billion.[216]

NEST

Managed by the firm ATI (Advanced Technology International), the Naval Energetic Systems and Technologies Program (NEST) addresses energetics and explosive ordnance disposal challenges in sea, air, land, space, and cyber operations in partnership with the Naval Surface Warfare Center Indian Head Division (NSWC IHD).[217, 218] NEST's technology focus areas include:

- Energetics
- Energetics Manufacturing
- Energetic Systems
- Energetics and Energetic Systems Modelling
- Modelling Software and Coding
- Artillery Systems, including Naval Gun Systems
- Ammunition and Guns Ammunition
- Propellants
- Propulsion Systems

[215] NAC/DOTC, "About DOTC," accessed September 16, 2025.
[216] "Transaction Information: OT IDV ID: W15QKN1891008," *FPDS*, signed April 11, 2018, last modified April 17, 2019.
[217] NAC, "NEST OTA," accessed September 11, 2025.
[218] NEST, "NEST – Naval Energetic Systems and Technologies Program," accessed September 16, 2025.

- Warheads
- Ordnance Disassembly and Related Technologies
- Improvised Explosive Device Detection, Defeat and Exploitation
- Fuzing and Safe and Arm Systems
- Counter Unmanned Systems (CUxS)
- Micro-electromechanical Systems (MEMS)
- Underwater Energetic Technologies
- Explosive Ordnance Disposal Robotic Systems
- Explosive Ordnance Disposal Systems and Tools
- Explosive Ordnance Disposal
- Electromagnetic Radiation, Signals, Signal Processing and Signal Capture
- Chemical, Biological, Radiological and Nuclear (CBRN)
- Packaging, Handling, Storage, and Transportation (PHS&T).[219]

The NEST OTA (OT IDV #N001742090001), awarded in September 2020, runs through March 2027 with the option to extend through March 2031.[220]

Consortium Partnership

AMTC

The Aviation & Missiles Technology Consortium (AMTC) is sponsored by the **Army Combat Capabilities Development Command (DEVCOM) Aviation and Missile Center (AvMC)**. The contracting activity is Army Contracting Command–Redstone Arsenal (ACC-Redstone or ACC-RSA), the largest contracting center in the U.S. Army. [221, 222, 223, 224]

DOTC

The DoD Ordnance Technology Consortium (DOTC) OTA is sponsored by the **Office of the Secretary of Defense (OSD)**.[225] Its contracting activity is U.S. Army Contracting Command, Picatinny Arsenal, NJ (ACC-PICA or ACC-NJ).[226] See DOTC's site for a more complete list of government partners.

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[219] NEST, "Technology Areas," accessed September 16, 2025.
[220] "Transaction Information: OT IDV ID: N001742090001," *Federal Procurement Data System (FPDS)*, signed September 30, 2020, last modified July 10, 2023.
[221] ATI, "Aviation & Missiles Technology Consortium," accessed September 11, 2025.
[222] "Transaction Information: OT IDV ID: W9124P1990001," *FPDS*, signed March 12, 2019, last modified June 28, 2019.
[223] "Transaction Information: OT IDV ID: W9124P1990001," *FPDS*, signed May 2, 2025, last modified May 2, 2025.
[224] U.S. Army Contracting Command, "Army Contracting Command–Redstone Arsenal," accessed September 12, 2025.
[225] NAC, "DOTC OTA," accessed September 11, 2025.
[226] "Transaction Information: OT IDV ID: W15QKN1891008," *Federal Procurement Data System (FPDS)*, signed April 11, 2018, last modified April 17, 2019.

NEST

The **Naval Surface Warfare Center Indian Head Division** **(NSWC IHD)** is the sponsor and contracting activity for the NEST OTA.[227, 228] A field activity under the Naval Sea Systems Command (NAVSEA), NSWC Indian Head is DoD's "largest full-spectrum energetic facility" and the "Navy's premier facility for ordnance, energetics and explosive ordnance disposal (EOD) solutions."[229]

Membership

NAC has about **1,191** **current members**, comprised of traditional and non-traditional defense contractors, including small and large businesses, academic institutions, and other non-profits.[230, 231] (See full member list.)

Membership in NAC grants organizations membership in AMTC, DOTC, and NEST, gives them access to solicitations issued through the three OTAs, and renders them eligible to respond to the bid opportunities.[232] Applicants must have a valid Military Critical Technical Data Agreement DD2345 certification, and NAC members are required to maintain active certification. Membership is limited to U.S. companies and the U.S.-based affiliates of foreign companies.[233] As with other consortia, to be eligible for NAC membership, applicants must be U.S. firms or institutions that are not barred from contracting with or receiving funds from the federal government and "clearly demonstrate in their membership application that they have an interest in and are capable of assisting with or making technical contributions to the advancement in the Field," per the NAC Consortium Member Agreement.[234]

There is a **one-time $500 fee** to join and no recurring annual member dues.[235] Note that NAC members who receive awards are also subject to an award assessment, not to exceed 1% of the award value.[236]

All NAC members are considered Naval Surface Technology and Innovation Consortium (NSTIC) members as well, provided they complete the NSTIC member agreement.[237]

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[227] NEST, "NEST – Naval Energetic Systems and Technologies Program," accessed September 16, 2025.
[228] "Transaction Information: OT IDV ID: N001742090001," *Federal Procurement Data System (FPDS)*, signed September 30, 2020, last modified July 10, 2023.
[229] NSWC Indian Head, "Who We Are," accessed September 16, 2025.
[230] NAC, "Current Members," accessed September 11, 2025.
[231] NAC, "National Armaments Consortium Member Agreement," September 2024, 4.
[232] NAC, "Membership," accessed September 16, 2025.
[233] NAC, "Membership Application," accessed September 16, 2025.
[234] NAC, "National Armaments Consortium Member Agreement," September 2024, 5.
[235] NAC, "How to Join," accessed September 16, 2025.
[236] NAC, "National Armaments Consortium Member Agreement," September 2024, 6.
[237] NSTIC, "Frequently Asked Questions," accessed September 16, 2025.

Bid Opportunities

Per NAC,

> "Solicitations are issued by the DoD's Defense Ordnance Technology Consortium (DOTC), the Aviation & Missile Technology Consortium (AMTC), and the Naval Energetic Systems and Technologies (NEST) Program to NAC members. …When a solicitation is released, NAC members are notified, and the solicitation is posted on our Members Only Website."[238]

While the three consortia –AMTC, DOTC, and NEST – do not publicly provide bid opportunity details, they do indicate when solicitations have been issued and/or the frequency with which they are released.

AMTC

AMTC solicitations, or Requests for Enhanced Whitepapers, are only available to members; however, AMTC's solicitations page indicates the issue date of solicitations but not their subject or content. AMTC solicitations are issued **triennially**,[239] with most issuances containing more than one topic call.

DOTC

DOTC solicitations are issued **monthly** in the form of Requests for White Papers (RWPs).[240] These opportunities are open for 21 days from release and allow NAC members to propose prototype technologies. DOTC also issues monthly Technology Collaboration Plans (TCPs), which government customers use to "conduct 'market research'":

> "TCPs are comprised of Technology Collaboration Topics (TCTs) which are requests for technology information (new and innovative ideas, suggested state of the art breakthroughs and market surveys for near term requirements). TCTs are not solicitations for award, but are opportunities for NAC members to showcase technological solutions that the Government may not be aware of and to collaborate to see if they are a feasible way ahead to solving particular problems."[241]

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[238] NAC, "Opportunities," accessed September 11, 2025.
[239] NAC, "Membership," accessed September 16, 2025.
[240] NAC, "Membership," accessed September 16, 2025.
[241] Defense Ordnance Technology Consortium (DOTC), "Opportunities & Solicitations," accessed September 11, 2025.

NEST

NEST solicitations are issued **twice a year at minimum**.[242] In FY2023 bid opportunities were released eight times, with most containing multiple topic calls. In FY2024, bid opportunities were issued six times, and in FY2025 as of early September, bid opportunities were issued twice.

Awards

AMTC

According to AMTC's Awards listing, 33 awards were made in FY2022, 62 in FY2023, and 53 in FY2024, for an **average of 49 awards per year**. AMTC has made 36 awards in FY2025 as of early September. From FY2022 through FY2025, award amounts range from $15,000–$481.3 million.[243] Individual award amounts and awardees are listed on the site. A sample of FY2025 awards are shown below.

Table 5: AMTC FY2025 Awards (Sample)

[242] NAC, "Membership," accessed September 16, 2025.
[243] AMTC, "Awards," accessed September 16, 2025.

Project	Requirement Area	Project Title	AMTC Member	Project Value
April 2025				
23-01-004	MED-23-01-02	PNT Experimentation and Radio Communications System (PERCS)	Hill Technical Solutions, Inc.	$48.74M
24-01-050	AV-24-01-02	Composite Rotor Blade Advanced Manufacturing with Thermoplastics (COMBAT)	RTX Technology Research Center (RTRC)	$3.52M
24-03-026	AV-24-03-01	Launched Effects - Short Range (LE-SR) Line of Effort (LOE) 1	Raytheon Cyber Solutions, Inc.	$9.42M
24-03-045	AV-24-03-01	AEVEX Launched Effects Short Range (LE-SR) Line of Effort (LOE) 1	AEVEX Aerospace LLC	$6.34 M
24-03-154	AV-24-03-01	Launched Effects – Short Range (LE-SR) Line of Effort (LOE) 1	Anduril Industries, Inc.	$11.88M
March 2025				
24-01-056	AV-24-01-01	Black Hawk Helicopter Erosion and Corrosion Improvement Program	Intuitive Research and Technology Corporation	$55.10M
24-01-023	AV-24-01-03	Durable Rotor Technologies	The Boeing Company	$9.49M
22-04-005	GM-22-04-05	Hypersonic Glide Body / Thermal Protection System and Advanced High Temperature Seeker Window and Array Prototype Development	Toyon Research Corporation	$42.57M
February 2025				
22-04-037	AV-22-04-02	LEA and Weapon Interface Module for Modular Effects Launcher	SAIC	$30.96M
23-05-078	GM-23-05-02	Advance Technology Integration -Detroit (ATI-D)	Invariant Corporation	$89.43M
22-04-013	GM-22-04-05	Dynetics Advanced TPS and Seeker Approach	Dynetics, Inc.	$68.25M
24-03-087	GM-24-03-04	Launcher Prototype Development and Demonstration	Bradshaw Engineering and Technical Services, LLC	$26.99M

Source: Awards – The Aviation & Missile Technology Consortium

DOTC

According to DOTC's Awards listings, 36 awards were issued in calendar year 2022, 22 in 2023, and 21 in 2024, for an **average of 26 awards per calendar year**. From 2022 through 2025, award amounts range from $250,000–$97.4 million.[244] Individual award amounts and awardees are listed on the site. A sample of awards made in 2025 and 2024 is shown below.

Table 6: DOTC Awards Made in 2024 & 2025 (Sample)

[244] NAC/DOTC, "Awards," accessed September 16, 2025.

Project #	Research Area	Project Title	DOTC Member	Project Value
August-25				
2409 INIT 0001	WPN-24-003	Advanced Lightweight Medium Caliber Armament System	PROOF Research, Inc.	$17.85 M
June-25				
2407 INIT 0003	ENT-24-007	Highly Specialized Data Acquisition and Weapon Simulator Test Tools	NTA, Inc.	$29.23 M
March-25				
2307 INIT 0020	RMB-23-001	Great Power Competition Tech Enhncmnts for SGM and SGM Deriv	Dynetics, Inc.	$31.18 M
February-25				
Jan-25				
2401 INIT 0013	DEW-23-002	Modular Power and Thermal Management Demonstrator	General Technical Services, LLC	$24.50 M
2402 INIT 0023	ENT-24-001	Passive Thermal-managed Energy Storage Prototype (PTESP)	General Technical Services, LLC	$15.42 M
2405 INIT 0001	RMB-23-006	Missile Airframe Simulation Testbed (MAST)	BlueHalo, LLC	$34.20 M
December-24				
2402 INIT 0012	AMM-24-005	SIG SAUER WP - AMM-24-005: New Automated Primer Manufacturing Process	SIG SAUER, Inc	$24.63 M
2404 INIT 0001	ENT-24-005	New Digital Modeling System for Insensitive Munitions	Northrop Grumman Systems Corporation (Weapons System Division)	$19.68 M
2409 INIT 0006	FUZ-24-002	Proximity Sensor Signal Processor Integrated Circuit Replacement	Mixed Signal Integration	$2.41 M

Source: Awards – DOTC

NEST

According to NEST's Awards page, 32 awards were made in FY2023, 42 in FY2024, and 44 in FY2025 as of early September – for an **average of 39 awards per year**. Amounts ranged from $25,000–$93.8 million. Individual award amounts and awardees are listed on the site. A sample of FY2025 awards are shown below.

Table 7: NEST FY2025 Awards (Sample)

STATEMENT OF NEED	PROJECT TITLE	NAC MEMBER NAME	PROJECT VALUE	AWARDED
ENRM-24-01-014	3D Printed Igniter Grains	Aerojet Rocketdyne, Inc.	$908K	March 2025
FSA-24-01-002	Multi-Mode-Demain Target Detection Device	Action Mfg Co	$5.19M	March 2025
PPS-23-E-001	21-inch Propulsion Section for Standard Missile	Aerojet Rocketdyne, Inc.	$2.73M	March 2025
ENR-24-01-004	Advanced Materials for Energetic Research, Innovation and Controlled Assessment (AMERICA)	JAKTOOL	$3.33M	March 2025
ENR-24-01-002	Demonstrating Advanced Ordnance Technologies in Reduced Size Warheads	Corvid Technologies LLC	$11.1M	March 2025
PPS-24-01-003	Advanced Manufacturing Pathfinder for Solid Rocket Motors (GMLRS)	General Dynamics Ordnance and Tactical Systems	$6.30M	March 2025
ENR-24-01-002	Evaluating Adv Ordnance Tech to Assist in Estimating Military Utility	ARA	$16.0M	March 2025
PPS-24-01-001	Multi-Mission On-Demand Variable Thrust Propulsion	Valley Tech System, Inc.	$2.09M	March 2025
ENR-24-01-001	Combined Effects Explosives: Formulation Scaleup and Qualification	Northrop Grumman Systems Corporation	$991K	March 2025
ENRM-24-01-016	Navy Energetic Materials SCRM Database/Navy IBAT	Decision Sciences Inc.	$1.00M	February 2025
OTH-24-01-003	Heating Solution to Reduce Size and Increase Life of a Thermal Battery	Lockheed Martin Corporation	$718K	February 2025
ENR-24-01-002	Prototype Warhead Damage Mechanism Lethality Assessment Tool	Integrated Solutions for Systems	$15.0M	February 2025
AGA-24-02-003	ElbitAmerica, Inc. Precision Subterranean Mortar Round Response	Elbit Systems of America	$5.79M	January 2025
AGA-23-02-001	120mm M1002 AMP Trainer Cartridge Program NGDS	Northrop Grumman Corporation	$12.2M	January 2025
ENRM-23-02-001	Automated Intelligent Manufacturing (AIM)	Cyberspace Solutions, LLC dba Illuminate Mission Solutions	$550K	January 2025

Source: Awards – NEST

3.16 National Security Technology Accelerator (NSTXL)

The Defense Energy Center of Excellence (Arlington, VA), doing business as the National Security Technology Accelerator (NSTXL),[245] is a consortium that currently manages two DoD OTAs, the Strategic & Spectrum Missions Advanced Resilient Trusted Systems

[245] National Security Technology Accelerator (NSTXL), "Commonly Requested Corporate Information," January 2019.

(S²MARTS) OTA, focused on electronic warfare, and the Space Enterprise Consortium (SpEC) OTA, centered on technologies that enable more frequent launches and innovative spacecraft designs.[246, 247] NSTXL's mission is to "transform[ ] government innovation efforts with commercial best practices, tools, and expertise that decrease costs, compress timelines, and improve outcomes."[248]

S²MARTS OTA

Technical areas of focus for the S²MARTS OTA include:

- Commercial-off-the-shelf (COTS) programmable integrated circuit (IC) co-development
- Custom optics
- Design assurance
- Enhanced fabrication
- Field programmable gate arrays (FPGAs)
- Machine learning
- Magnetic random access memory (MRAM)
- Manufacturing technology
- Microelectronics and electronic warfare focused workforce development
- Microelectronics obsolescence and replacement
- Modeling and simulation
- New microelectronics development, demonstration, and capability insertion
- Outreach and standards
- Radiation hardened by process (RHBP)/radiation hardened by design (RHBD)
- Radiation Hardened Microelectronics
- Radio frequency (RF) and optoelectronic (OE) microelectronics
- Spectrum warfare technologies – advanced and custom optics, advanced threat assessment, and exploitation efforts
- Spectrum warfare technologies – all other
- Strategic missions warfare
- Verification and validation.

The U.S. Naval Surface Warfare Center (NSWC), Crane Division awarded NSTXL the S²MARTS (Strategic & Spectrum Missions Advanced Resilient Trusted Systems) OTA (OT

[246] NSTXL, "Strategic & Spectrum Missions Advanced Resilient Trusted Systems (S²MARTS)," accessed September 12, 2025.
[247] NSTXL, "SpEC Technology Areas," accessed September 12, 2025.
[248] NSTXL, "About," accessed September 12, 2025.

IDV #N001641990001) in February 2019.[249] The OTA is "active for up to 10 years and does not have a finite ceiling."[250]

SpEC OTA

Technical areas of focus for the SpEC OTA include:

- Mission design, CONOPS, and evaluation
- Mission operations and architecture
- Command, control, and communications architecture
- Launch segment
- Ground segment
- Satellite bus, structure, power, attitude control, propulsion
- Payload – Data processing and transport
- Payload – Radio frequency
- Payload – Optical (visibility and IR)
- Electronics (designed or intended for space operations, e.g. FPGAs, rad-hard, etc.)
- Artificial intelligence and machine learning to support all aspects of space operations.

Established in 2017, the Space Enterprise Consortium (SpEC) is funded through the SpEC OTA (OT IDV #FA88142190001), which the Air Force's Space and Missile Systems Center (SMC) awarded to NSTXL in 2021. The SpEC OTA currently runs through January 2031 and has a ceiling value of $12 billion.[251, 252]

Consortium Partnerships

NSTXL currently manages two different OTA contracts – the Strategic and Spectrum Missions Advanced Resilient Trusted Systems (S^{2}MARTS) OTA and the Space Enterprise Consortium (SpEC) OTA.[253]

S^{2}MARTS OTA

The S2MARTS OTA is sponsored by the **U.S. Naval Surface Warfare Center (NSWC), Crane Division**. NSWC Crane is a "naval laboratory and a field activity of Naval Sea Systems Command (NAVSEA) with mission areas in Expeditionary Warfare, Strategic

[249] "Transaction Information: OT IDV ID: N001641990001," *Federal Procurement Data System (FPDS)*, signed February 22, 2019, last modified September 9, 2022.
[250] NSTXL, "NSTXL Awarded OTA Contract for Critical Navy Technologies" (press release), March 12, 2019.
[251] NSTXL, "NSTXL Awarded Space Enterprise Consortium Agreement by SMC" (press release), January 18, 2021.
[252] "Transaction Information: OT IDV ID: FA88142190001," *Federal Procurement Data System (FPDS)*, signed January 15, 2021, last modified May 7, 2021.
[253] NSTXL, "Frequently Asked Questions," accessed September 12, 2025.

Missions and Electronic Warfare, …responsible for multi-domain, multi- spectral, full life cycle support of technologies and systems enhancing capability to today's Warfighter."[254]

SpEC OTA

When NSTXL was awarded the SpEC OTA in 2021, it was sponsored by the Air Force's Space and Missile Systems Center (SMC), "the center of acquisition excellence for acquiring and developing military space systems."[255] Later in 2021, the SMC was moved under the **U.S. Space Force** and was renamed the **Space Systems Command (SSC)**.[256] SSC is the "field command responsible for acquiring, developing, and delivering resilient capabilities to outpace emerging threats and protect our Nation's strategic advantage in, from, and to space," managing a $15.6 billion annual budget.[257]

Membership

Over 800 companies are part of NSTXL, including companies, academic institutions, and other nonprofits, 88% of which are non-traditional defense contractors.[258, 259] (See full membership list.) NSTXL members have access to the Strategic and Spectrum Missions Advanced Resilient Trusted Systems (S²MARTS) OTA and the Space Enterprise Consortium (SpEC) OTA.[260]

NSTXL uses a graduated membership dues structured, with **annual dues ranging from $250–$10,000**, depending on type of entity and annual revenue.

Corporate	
Annual Revenue	**Annual Dues**
< $10M	$250
$10M – $50M	$1,000
$50M – $100M	$5,000
$100M +	$10,000

Non-Profit	
Annual Revenue	**Annual Dues**
< $50M	$500
$50M – $100M	$5,000
$100M+	$10,000

Academic & Other	
Types	**Annual Dues**
University	$2,500
Laboratory	$2,500
Incubator	$500
Investor	$2,500

[254] U.S. Naval Surface Warfare Center, Crane Division (NSWC Crane), "NSWC Crane uses S²MARTS OTA to rapidly prototype Electronic Warfare technology for the Fleet" (press release), December 20, 2021.
[255] U.S. Air Force Space and Missile Systems Center (SMC), "SMC Awards SpEC Consortium Manager Agreement to NSTXL" (news release), January 15, 2021.
[256] Sandra Erwin, "End of an era: Space and Missile Systems Center is now Space Systems Command," *Space News*, August 13, 2021.
[257] U.S. Space Force Space Systems Command (SSC), "About Space Systems Command," accessed September 12, 2025.
[258] NSTXL, "Membership List," accessed September 12, 2025.
[259] NSTXL, "Membership," accessed September 12, 2025.
[260] NSTXL, "Frequently Asked Questions," accessed September 12, 2025.

Figure 3: NSTXL Membership Dues

Source: NSTXL Membership

To be eligible for membership in SpEC, applicants must already possess valid DD 2345 (Military Critical Technical Data Agreement) certification.[261]

Note that, if a member entity is selected for a project award, NSTXL does not charge a fee on top of the Performer's Project invoice or take a percentage of the invoice. Upon selection, NSTXL enters into a Performer's Agreement with the member, and "every agreement is different and can be tailored to meet the specific needs of the vendor and government program office."[262] Membership is required to respond to NSTXL-managed solicitations.

Bid Opportunities

S²MARTS OTA

About 65 bid opportunities have been released since the OTA was created in 2019. Nine or so opportunities were announced in FY2022, 10 in FY2023, and nine in FY2024, for an **average of about 9 bid opportunities per year**. About **nine solicitations** have been released in **FY2025** as of early September 2025.

There are three active bid opportunities available through S²MARTS:

- RNI – Composite Materials for Radiation Shielding
- Drake Docking Station (DS) Development
- Advanced Integration and Fabrication Growth for Domestic SOTA Radio Frequency Gallium Nitride (STARRY NITE).

SpEC OTA

According to the public SpEC site, eight bid opportunities were released in 2021, four in 2022, and **one solicitation after 2022**. On average, this would be about three solicitation per year. Full solicitations are only available to NSXTL members.

Awards

S²MARTS OTA

Awards are not listed collectively, but the entity awardee is named in archived bid opportunities. Dollar amounts are not disclosed. In **FY2025** as of early September, the following organizations received awards:

- Roke USA, Inc. (Chemring)

[261] NSTXL, "Membership," accessed September 12, 2025.
[262] NSTXL, "Frequently Asked Questions," accessed September 12, 2025.

- Polarity, Inc.
- NARDA-MITEQ
- Kratos Defense & Security Solutions, Inc.
- Lattice Semiconductor Corporation
- Trusted Semiconductor Solutions, Inc.
- Fiber Materials, Inc. (acquired by Tex-Tech Industries in 2025)
- Georgia Tech Applied Research Corporation
- GrammaTech, Inc.
- Leonardo Electronics US, Inc.
- Northrop Grumman
- Tessa Two, Inc.

SpEC OTA
Awards made under the SpEC OTA are not publicly listed.

3.17 National Spectrum Consortium (NSC)

The National Spectrum Consortium (NSC) is a DoD-sponsored consortium focused on spectrum and wireless technology development that was formed in 2015 to manage a $1.25 billion, five-year prototype OTA executed through the Office of the Deputy Assistant Secretary of Defense for Research and Engineering (DASD[R&E]), Emerging Capabilities and Prototyping (EC&P), now under the Office of the Under Secretary of Defense for Research and Engineering (OUSD[R&E]). NSC was awarded the five-year Spectrum Forward prototype OTA agreement in 2020.[263, 264, 265] NSC's mission is to connect key stakeholder groups in government and industry in order to "deliver two essential outcomes: breakthroughs in spectrum- and spectrum-using capabilities; and policy and regulatory insights to enhance, inform and sustain U.S. technical leadership."[266] From 2016 to the present, NSC has awarded about $1.6 billion across 100 projects.[267] The consortium focuses on the following technology areas:

- 3D beamforming
- 5G
- Autonomous navigation

[263] National Spectrum Consortium (NSC), "Comments of the National Spectrum Consortium Before the United States Department of Commerce National Telecommunications and Information Administration in the Matter of 5G Challenge Notice of Inquiry," Docket No. 210105-000, February 10, 2021, 3.
[264] NSC, "About Us," September 12, 2025.
[265] "Spectrum Forward Consortium Other Transaction Agreement (OTA)," Notice ID: ACC-NJ, Related Notice: W15QKN-20-R-08J1, *SAM.gov*, contract award date December 15, 2020.
[266] NSC, "NSC Announces New RFI: Joint Modular Emitter Interface Standards (JMEIS) Project" (press release), July 23, 2025.
[267] NSC, "Project Awards," accessed September 12, 2025.

- Cognitive sensing
- Cognitive spectrum sharing
- Critical internet of things (C-IoT)
- Device-to-device (D2D) communications
- Digital twins
- Heterogeneous networks (HetNets)
- Machine learning
- Massive internet of things (M-IoT)
- Massive multiple input, multiple output (mMIMO)
- Multi-function radio frequency (RF)
- Narrow band internet of things (NB-IoT)
- Network function virtualization
- Network ultra-densification
- Next generation radio access network (RAN)
- Smart technologies
- Vehicular ad-hoc networks (VANET)
- Virtual/augmented/mixed reality
- Waveform diversity
- Wireless software defined networks.[268]

As NSC's first OTA was expiring, in December 2020 NSC was awarded the five-year Spectrum Forward prototype OTA (OT IDV #W15QKN2195599) with a ceiling value of $2.5 billion, sponsored by the Office of the Deputy Under Secretary of Defense, Research and Engineering (OUSD (R&E)).[269, 270, 271]

Consortium Partnership

NSC's Spectrum Forward OTA is funded by DoD's Washington Headquarters Office, sponsored by the Office of the Deputy Under Secretary of Defense, Research and Engineering (OUSD (R&E)), and contracted through the Army Contracting Command New Jersey (ACC-NJ).[272, 273]

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[268] NSC, "About Us," accessed September 12, 2025.
[269] "Spectrum Forward Consortium Other Transaction Agreement (OTA)," Notice ID: ACC-NJ, Related Notice: W15QKN-20-R-08J1, *SAM.gov*, contract award date December 15, 2020.
[270] "Transaction Information: OT IDV ID: W15QKN2195599," *Federal Procurement Data System (FPDS)*, signed December 15, 2020, last modified September 29, 2023.
[271] National Spectrum Consortium, "National Spectrum Consortium Wins $2.5 Billion Spectrum Forward Other Transaction Agreement from the US Department of Defense" (press release), *PRNewswire*, December 16, 2020.
[272] "Spectrum Forward Consortium Other Transaction Agreement (OTA)," Notice ID: ACC-NJ, Related Notice: W15QKN-20-R-08J1, *SAM.gov*, contract award date December 15, 2020.
[273] "Transaction Information: OT IDV ID: W15QKN2195599," *Federal Procurement Data System (FPDS)*, signed December 15, 2020, last modified September 29, 2023.

Membership

NSC currently has **309 members**, including federal organizations, industry, startups, and academic and other nonprofit institutions. (See full member list.) Two-thirds (209 members) are non-traditional defense contractors, and about half (158 members) are small businesses. 265 members are "full type members" who are required to maintain DD 2345 (Military Critical Technical Data Agreement) certification and are eligible for awards through NSC solicitations, while 44 members are "participant type members," who are not required to maintain DD2345 certification and are ineligible for awards.[274, 275] Annual **membership dues** for both membership categories are **$500**, due October 1. Dues follow a pro-rated structure based on the date of acceptance.[276]

To obtain full membership, an organization must be eligible to contract with the federal government, hold a valid DD 2345 certification, have "an interest in the research and development of spectrum-related technology," and be "capable of making a technical contribution (as defined in the bylaws) to the advancement of spectrum-related technology,"[277] "defined as entailing in-house, hands-on research and development activities that are relevant and essential to a proposed project or effort."[278] (See membership application and bylaws.)

Bid Opportunities

While active and recently closed solicitations are listed on NSC's website, full solicitations are only made available to full NSC members, and solicitation respondents must be full members.[279] In **FY2025 thus far**, NSC has released **five solicitations** (Requests for Prototype Proposals or RPPs).[280]

Awards

Since 2016, NSC has made 100 awards totaling about $1.6 billion in funding. During 2022–2024, NSC made 25 awards, for an **average of 8 awards per year**.[281] The awards lists for 2022, 2023, and 2024 follow.

Table 8: National Spectrum Consortium Awards Made in 2024

[274] NSC, "Our Members," accessed September 12, 2025.
[275] NSC, "How to Join," accessed September 12, 2025.
[276] NSC, "How to Join," accessed September 12, 2025.
[277] NSC, "Membership Application," accessed September 12, 2025.
[278] NSC, "Bylaws of National Spectrum Consortium, Inc.," amended as of December 31, 2024.
[279] NSC, "Frequently Asked Questions," accessed September 12, 2025.
[280] NSC, "Solicitations," accessed September 12, 2025.
[281] NSC, "Project Awards," accessed September 12, 2025.

Solicitation Title	Project Title	Prime Awardee	Award Date	Project Value
Spectrum Integration System Core (SIS Core)	SIS Core	Peraton Labs Inc.	09/30/2024	$9,891,561.83
Spectrum Integration System Sensor Edge (SIS Sensor Edge)	SIS Sensor Edge	Chesapeake Technology International	09/30/2024	$8,624,705.04
Project Mayhem	Project Red Five	L3Harris Technologies, Inc. (L3Harris)	09/30/2024	$96,586,174.00
Project Mayhem	Project Red Spyder	Anduril Industries, Inc.	09/03/2024	$29,413,835.00
Project Mayhem	Project Red Five	General Atomics Aeronautical Systems, Inc. (GA-ASI)	07/24/2024	$97,858,338.00
Project Mayhem	Project Red Five	Systems & Technology Research LLC (STR)	05/16/2024	$95,865,749.00
Project Mayhem	Project Mayhem	Resonant Sciences	03/26/2024	$26,435,602.15

Source: National Spectrum Consortium

Table 9: National Spectrum Consortium Awards Made in 2023

Solicitation Title	Project Title	Prime Awardee	Award Date	Project Value
Phased Array Telemetry Antenna System for Aeronautical Mobile Telemetry	Multi-Band Transportable Phased-Array Antenna System for Telemetry (MTPAAS)	Creative Digital Systems Integration, Inc. (CDSI)	09/28/2023	$22,403,562.64
Phased Array Telemetry Antenna System for Aeronautical Mobile Telemetry	Containerized/Airborne Phased-Array Telemetry Receiver (CAPTR)	BlueHalo Labs, LLC	09/27/2023	$47,222,801.00
	ORchestrator and DistributEd IntegRator for Mayhem (ORDER)	Peraton Labs, Inc.	09/25/2023	$16,035,103.80
	Secure Optical Aerial Relay (SOAR)	Aalyria Technologies, Inc.	06/19/2023	$7,173,972.00
	5G Resilient Communications	Viasat, Inc.	06/12/2023	$10,589,033.00
	Secure 5G MANET (Mobile Ad Hoc Network)	Raytheon BBN Technologies	03/29/2023	$6,572,214.00
	Secure 5G MANET (Mobile Ad Hoc Network)	Leidos, Inc.	03/29/2023	$5,935,194.00
	Secure 5G MANET (Mobile Ad Hoc Network)	Peraton Labs, Inc.	03/29/2023	$5,499,934.22
	5G Resilient Communications	Sierra Nevada Corporation	03/29/2023	$5,191,396.92
	Next Generation - Digital Fires Networks & Transports (DFNT)	Peraton Labs, Inc.	01/24/2023	$49,999,992.03
	Next Generation – Digital Fires Networks & Transports (DFNT)	Augustine Consulting Inc.	01/13/2023	$39,671,976.10

Source: National Spectrum Consortium

Table 10: National Spectrum Consortium Awards Made in 2022

Solicitation Title	Project Title	Prime Awardee	Award Date	Project Value
	Next Generation – Digital Fires Networks & Transports (DFNT)	Techximius Corp	12/05/2022	$49,367,093.00
	Next Generation – Digital Fires Networks & Transports (DFNT)	MAG DS Corp	09/29/2022	$49,467,773.33
	HPE_5G Interoperability with MANO and Resiliency	Hewlett Packard Enterprise	08/25/2022	$5,363,859.56
	5G Core Security	Exium, Inc.	08/01/2022	$5,367,626.00
	5G Enabled AR Guided Medical Training	Intelligent Automation, Inc.	06/06/2022	$15,895,016.00
	5G in Telemedicine and Medical Training for 5G AR-Enabled Telementoring for Medical Procedures (AR Telementoring Prototype)	Booz Allen Hamilton, Inc.	04/12/2022	$12,512,475.00
	Cellular Airborne Transceiver for Aeronautical Mobile Telemetry (TMRC)	Peraton Labs, Inc.	04/08/2022	$16,499,899.00

Source: National Spectrum Consortium

Note that the government client and not NSC makes award determinations. Per NSC,

> "Projects to be executed under [NSC's] OTA[s] will be competed among the NSC members and proposals will be submitted through the NSC to the Government for evaluation and source selection. …
>
> The Government's technical point of contact (Agreement Officer Representative – AOR) assigned to oversee the project will assemble a team of individuals responsible for evaluating the proposals and ultimately which proposals get recommended for award. No NSC staff are part of the evaluation process. …
>
> Once the source selection is made and negotiations are completed, NSC will be directed by the Government to issue a sub-agreement with the successful offeror under the overarching OTA."[282]

3.18 Naval Aviation Systems Consortium (NASC)

The Naval Aviation Systems Consortium (NASC) is critical air warfare technologies consortium of over 500 members,[283] managed by the Consortium Management Group (CMG), which manages four OTAs and two other consortia – the Consortium for Energy,

[282] NSC, "Frequently Asked Questions," accessed September 12, 2025.
[283] Naval Aviation Systems Consortium (NASC), "CMG NASC | Naval Aviation Systems Consortium," accessed September 17, 2025.

Environment and Demilitarization (CEED) and Consortium for Command, Control, Communications in Cyberspace (C5).[284] NASC's **technology focus areas** include:

- Air Vehicles
  - Advanced Airframe Materials & Structures
  - Corrosion Prevention & Control
  - Air Vehicle Aerodynamics & Flight Controls
  - Shipboard Interaction
  - Advanced Modeling & Simulation
  - Life Management of Naval Airframes/Subsystems
  - Thermal Management, Fire & Ice Protection
  - Hydraulics, Pneumatics & Landing Gear Systems
  - Fuel Containment/Aerial Refueling
  - Mechanical Systems
- Propulsion and Power
  - Advanced Cycle Propulsion Systems
  - State Based Management of Dynamic Components
  - Highly Integrated Control System
  - Low Observable Signature Technologies (Noise, Radar, Infra-Red)
  - Emissions and Pollution Control
  - High Speed Aerodynamics
  - High Power Density Electrical Systems
- Avionics
  - Sensor/Data Fusion
  - Electronic Warfare/Airborne Electronic Attack
  - Fiber Optics/Networking
  - Acoustics Sensors
  - Radar & Antenna Systems
  - Communications
  - Electro Optical/Special Mission Sensors
- Human Systems
  - Command & Control
  - Human, Social, Behavioral & Cultural Modeling
  - Human Performance Assessment & Modeling
  - Interactive Experimentation
  - Protection, Performance & Survivability
  - Virtual Environments & Simulation
- Weapons and Energetics
  - Energetic Materials & Energetics Systems
  - Weapon Airframe Engineering
  - Weapon Guidance and Control

[284] NASC, "About CMG," accessed September 17, 2025.

    - Weapon Systems Engineering

- Support Equipment (SE) and Aircraft Launch and Recovery Equipment (ALRE)
    - Electromagnetics
    - Diagnostics of Avionics
    - Networks, Information Systems & Intelligent Agents
    - Controls, Sensors & Instrumentation, Prognostics & Health Monitoring
    - Cameras, Displays, Optics
    - Robotics

- Warfare Analysis
    - Engagement/Mission/Campaign Analyses
    - Operational Suitability/Effectiveness Analyses
    - Weapon System Performance Analyses
    - Aircraft Suitability Utility Analyses Science & Technology Gap Analyses

- Research and Intelligence
    - Materials Research
    - Image and Signal Processing
    - Employment of Unmanned Systems
    - Optics Research and Fabrication
    - Chemical Detection

- Test, Evaluation and Engineering
    - Systems Evaluation, Experimentation & Test
    - Air Vehicle Testing
    - Shore Based and Shipboard Precision Approach & Landing System (PALS)
    - Stores Compatibility Testing
    - Mission Systems Testing
    - Weapons Testing
    - Ranges
    - Air Vehicle Modification & Instrumentation Testing
    - Survivability Flight Test
    - Time Space Position Information (TPSI)
    - Mission Systems Flight Test
    - Weapon Effectiveness Testing
    - Aero-Mechanical Flight Test
    - Threat/Target Systems
    - Target Engineering
    - Target Airborne Threat Simulation
    - Target Combat Environment Testing
    - Seaborne Targets
    - Integrated Battle-Space Simulation & Test
    - Physical and Simulated Environments for Platform, System of Systems (SoS), and Family of Systems (FoS) Test & Evaluation
    - Generation of Threat Simulations/Signals for Installed System Testing
    - Weapons & Aircraft Systems Hardware-in-the-Loop Testing
    - Interoperability Evaluations for Communications Signals/Data

  - Aircraft Flight Simulation and Stimulation T&E
  - Electromagnetic Environment Effects (E3) T&E
  - Ground Radar Cross Section (RCS) Measurement and Analysis

- Simulation and Modeling
  - Weapons Training Systems
  - Low-cost Photo Texture/Databases
  - Virtual Environment Training Technology
  - Tactical Decision-Making Under Stress
  - Parallel Computing Applied to Simulation & Modeling

- Digital Transformation
  - Enterprise Business Transformation Planning & Execution
  - Integrated Modeling Environment/Digital Engineering, Modeling & Simulation (M&S), Test & Evaluation (T&E), & Training
  - Data Architecture, Design, Engineering, & Management/Sustainment
  - Digital Solutions Technology Development/SecDevOps
  - Advanced Analytics/Artificial Intelligence (AI)/Machine Learning (ML)
  - Talent Management/Digital & Data Careers/Organizational Strategies
  - Digital Innovation/Disruptive Digital Technologies.[285]

Per the NASC Consortium Membership Agreement, the specific objectives of the consortium are:

> "1. Facilitate collaboration between Naval Air Warfare Centers ("NAWC"), NAVAIR and NASC Members so that the Government achieves a greater awareness of emerging technologies in the commercial marketplace and industry achieves a greater awareness of the NAWC's and NAVAIR needs.
>
> 2. Deliberately mature specified technologies and demonstrate them in operationally relevant environments.
>
> 3. Develop and mature technologies in a manner that enables rapid transition to the Warfighter.
>
> 4. Ensure the nature of the Agreement facilitates and eases the entry of NDCs into the Defense marketplace.
>
> 5. Provide for follow-on production at the Government's discretion for prototypes determined to be successful by the Government."[286]

[285] NASC, "CMG NASC | Naval Aviation Systems Consortium," accessed September 17, 2025.
[286] NASC, "Consortium Membership Agreement," Revision 1, May 2020, 6.

The five-year NASC OTA (OT ID #N004211990001), which the Navy awarded to NASC in June 2019, was extended in 2024 and now has an end date in **June 2029**.[287, 288]

Consortium Partnership

NASC is sponsored by the **Naval Air Warfare Center Aircraft Division (NAWCAD)**, located in Patuxent River, MD, under the Naval Air Systems Command (NAVAIR).

Serving as both the funding and contracting activity for the NASC OTA, NAWCAD performs research, development, test, evaluation, and sustainment for U.S. Navy and Marine Corps aircraft and related systems.[289]

Membership

NASC has about **971 current members**. Note, however, that Per the NASC Consortium Membership Agreement,

> "NASC comprises Traditional and Non-traditional Defense Contractors, small businesses, nonprofit organizations and academic institutions. NASC is open to, and will include, all interested entities that have capabilities in at least one of the Naval Aviation Systems Technology Areas set out in the OT Agreement with NAWCAD [see above]. …Consortium Members attest that they are not excluded from contracting with, or receiving funds from, the Government."[290]

Membership dues are $500 per year. However, dues are waived for each member's first year, and "dues for universities, colleges and other educational institutions are waived in perpetuity." NASC also charges an **administrative and management fee** assessed as a percentage of each project award.[291] (The exact percentage was not found.)

Bid Opportunities

NASC membership is required to be eligible for project awards under the NASC OTA, but basic bid opportunity descriptions and milestone dates are posted on the public NASC Opportunities page. There was one current solicitation as of early September 2025: AN/UPX-24 Interrogator Set Touch Panel Display Unit with Integrated CPU.

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[287] "Transaction Information: OT IDV ID: N004211990001," *Federal Procurement Data System (FPDS)*, signed June 6, 2019, last modified June 13, 2019.
[288] "Transaction Information: OT IDV ID: N004211990001," *FPDS*, signed June 4, 2024, last modified July 29, 2024.
[289] Naval Air Systems Command (NAVAIR), "Naval Air Warfare Center Aircraft Division," accessed September 17, 2025.
[290] NASC, "Consortium Membership Agreement," Revision 1, May 2020, 5.
[291] NASC, "Consortium Membership Agreement," Revision 1, May 2020, 12.

According to the public solicitations page, in FY2022 there were seven bid opportunities issued, in FY2023 eight, and in FY2024 six, for an **average of seven bid opportunities per year**. There were 10 issued in FY2025 as of early September.[292]

Awards

According to NASC's public Opportunities page, which lists awardees by solicitation, 20 projects were awarded in FY2022, 14 in FY2023, 13 in FY 2024, for an **average of about 16 awards per year**. Six awards have been made in FY2025 as of early September. These are summarized below.

Table 11: NASC Awards Made in FY2025 (as of September)

Awardee	Amount (rounded)	Solicitation Title	Date Awarded
9-12, LLC	$ 98,000	Public/Private Approach to Modernizing Navy Testing Infrastructure – Advanced Installed System Integration Capability (AISIC)	12/20/2024
Lockheed Martin Corp.	$ 1,057,000	MH-60 Minotaur Carry On/Carry Off (CO/CO) Prototype	01/29/2025
MACOM Technology Solutions, Inc.	$ 9,212,000	Naval Electromagnetic Radiation Facilities (NERF) Modernization High Power Radio Frequency (RF) X-Band Source Prototype Project	11/05/2024
SIA Solutions, LLC	$ 100,000	Public/Private Approach to Modernizing Navy Testing Infrastructure – Advanced Installed System Integration Capability (AISIC)	12/20/2024
Sikorsky Aircraft Corp.	$ 3,528,000	United States Marine Corps (USMC) Logistics Connector Middle Tier Acquisition Rapid Prototype	11/11/2024
Vision Products	$ 6,000,000	Micro-Displays and Optics for Future Naval Helmet Mounted Displays	12/06/2024

Source: NASC

[292] NASC, "Opportunities," accessed September 17, 2025.

3.19 Naval Surface Technology and Innovation Consortium (NSTIC)

Managed by ATI (Advanced Technology International), the Naval Surface Technology and Innovation Consortium (NSTIC) is a consortium of over 1,200 members,[293, 294] "focused specifically in supporting naval surface technology innovation to provide research, development, test and evaluation, analysis, integration and certification of complex naval warfare systems across a broad range of systems-related areas and disciplines."[295] NSTIC's technology focus areas include:

- Advanced Computing and Software Engineering
- Asymmetric Warfare
- Autonomous and Unmanned Systems (US)
- Big Data Analytics/Artificial Intelligence/Machine Learning
- Cyber
- Digital Engineering
- Directed Energy Science & Engineering (including electrical power management)
- Electromagnetic Environmental Effects and Spectrum
- Human Systems Integration
- Integrated Training Systems
- Integrated Warfare Systems
- Launcher and Projectile Systems
- Launcher Technology
- Lethality
- Manufacturing
- Mission Engineering and Analysis
- Multi-function Materials
- Quantum Technologies
- Reentry Systems
- Sensor Systems
- Surface Offensive & Defensive Engagements
- Threat Engineering
- Virtualization.[296]

All National Armaments Consortium (NAC) members are considered NSTIC members as well, provided they complete the NSTIC member agreement.[297]

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[293] Naval Surface Technology & Innovation Consortium (NSTIC), "Naval Surface Technology & Innovation Consortium," accessed September 16, 2025.
[294] NSTIC, "Current Members," accessed September 16, 2025.
[295] NSTIC, "Technology Areas," accessed September 16, 2025.
[296] NSTIC, "Technology Areas," accessed September 16, 2025.
[297] NSTIC, "Frequently Asked Questions," accessed September 16, 2025.

The five-year NSTIC OTA issued in June 2019 (OT ID #N001781990005), under which NSTIC had awarded more than $1 billion in contracts, was followed by a second, four-year NSTIC OTA in May 2024 (OT ID #N001782494015), which runs through **June 2028**.[298, 299, 300]

Consortium Partnership

The NSTIC OTA is sponsored by the **Naval Surface Warfare Center Dahlgren Division (NSWC Dahlgren or NSWCDD)**, under the Naval Sea Systems Command (NAVSEA).

NSWC Dahlgren, the OTA's funding and contracting activity,[301, 302] is broadly responsible for "development and integration of warfare systems" through research in disciplines such as physics, mathematics, directed energy and digital engineering, modeling and simulation, software, and mechanical, electrical and systems engineering. Current strategic thrusts include integrated combat power, hypersonic weapon systems and intelligent automation.[303]

Membership

NSTIC has **1,253 current members**, including 920 small businesses, 285 large businesses, 29 academic institutions, and 19 non-profit entities. 82% are non-traditional defense contractors.[304] (See full member list.)

As with many other DoD consortia, NSTIC membership, is limited to:

- Entities eligible to receive funding from U.S. government[305]
- Organizations that clearly demonstrate they are capable of making a technical contribution to the NSTIC technology focus areas.

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[298] "Transaction Information: OT IDV ID: N001782494015," *Federal Procurement Data System (FPDS)*, signed May 31, 2024, last modified June 4, 2024.
[299] "Transaction Information: OT IDV ID: N001781990005," *FPDS*, signed June 12, 2019, last modified December 9, 2022.
[300] Jane Edwards, "Naval Surface Tech Consortium Records Over $2B in OTA Awards," *GovConWire*, October 10, 2024.
[301] "Transaction Information: OT IDV ID: N001782494015," *FPDS*, signed May 31, 2024, last modified June 4, 2024.
[302] "Transaction Information: OT IDV ID: N001781990005," *FPDS*, signed June 12, 2019, last modified December 9, 2022.
[303] Naval Surface Warfare Center Dahlgren Division (NSWC Dahlgren), "Who We Are," accessed September 16, 2025.
[304] NSTIC, "Current Members," accessed September 16, 2025.
[305] NSTIC, "Naval Surface Technology and Innovation Consortium (NSTIC) Consortium Membership Agreement," June 25, 2019, posted August 2022, 2.

- U.S. companies and U.S.-based affiliates of foreign companies, due to the requirement for NSTIC members to maintain DD 2345 (Military Critical Technical Data Agreement) certification.[306, 307]

There is **no annual membership fee**. The project assessments, not to exceed 1% of the authorized funded agreement value, pay for the operations of the consortium. Effective April 1, 2024, the **NSTIC Assessment** on all projects is **0.35% of all awarded funding**.[308]

Bid Opportunities

NSTIC bid opportunities are available to full to members only. The public page lists two opportunities – one whose submission date was in August 2025 and one whose submission date is in October 2025. Previous solicitations are not listed on the public page.

Awards

NSTIC's Awards page lists those made 2020 through the present. In FY2022, 17 awards were made, in FY2023 29 awards, and in FY2024 20 awards, for an **average of 22 awards per year**. Award amounts ranged from $98,000–$171.2 million. 18 awards have been issued in FY2025 so far, as of early September, with amounts ranging from $504,000–$81.8 million.[309]

Individual award amounts and awardees are listed on the site. A sample of awards made in FY2025 is shown below.

[306] NSTIC, "How to Join," accessed September 16, 2025.
[307] NSTIC, "NSTIC Consortium Membership Agreement," June 25, 2019, posted August 2022, 2-3.
[308] NSTIC, "Frequently Asked Questions," accessed September 16, 2025.
[309] NSTIC, "NSTIC Awards," accessed September 16, 2025.

Table 12: NSTIC Awards Made in FY2025 (Sample)

Statement of Need	Project Title	NSTIC Member Name	Project Value	Awarded
LPS-24-01-004	ARCHIMES	XL Scientific LLC dba Verus Research	$6.0 M	Sep-25
SSS-23-01-001	I-Stalker Modernization	Science Applications International Corporation	$9.9 M	Sep-25
AUS-25-01-001	GALT Aerospace Fused Integrated Naval Network (FINN) v4	Global Air Logistics and Training, Inc.	$25.8 M	Aug-25
LPS-22-01-001	Open Architecture Fire Control: Intercept Capability Demonstration	Draper	$9.9 M	Jul-25
SSS-25-01-004	Multi-Domain Deployable - Battlefield Operational Exploitation Suite	Eiden Systems Corporation	$74.5M	Jul-25
SSS-25-01-002	Rapid MAS2T Prototyping and Testing	Integrated Solutions for Systems (IS4S)	$66.1 M	Jul-25
LPS-25-01-002	Altius Advanced Development and Fielding	Anduril Industries, Inc.	$77.9 M	Jun-25
DESE-23-01-007	Modular Solid-State Driver for Scalable High Powered Microwave (HPM) Systems	Scientific Applications & Research Associates, Inc.	$8.5 M	May-25
LPS-24-01-005	RF Converged Compute and Crypto (RFC3)	General Dynamics Mission Systems	$21.8 M	May-25
SSS-25-01-003	Spectrum Manipulation for Advanced Radio Threat Systems (SMARTS)	Hydra Systems, Inc.	$73.6 M	Apr-25
LPS-24-01-002	Advanced VNX+ SDR Payload for Small Diameter Munitions (ENDPOINT)	Strategic Technology Consulting, LLC	$1M	Mar-25
LPS-25-01-002	Guided Ordnance & Loitering Unmanned Munition (GOLUM)	Raytheon	$32.3M	Mar-25
LPS-24-01-009	Hypersonic Broad Ocean Area Prototype Unmanned Data Collection System	Raven Defense Corp.	$51M	Feb-25
LPS-24-01-006	Development of an Increment-2 ASIC Capable Weapons GPS Receiver	BAE Systems Electronic Systems	$10.1M	Dec-24

Source: NSTIC Awards

3.20 System of Systems Consortium (SOSSEC)

Founded in 2007 and managed by DoD consortium management firm SOSSEC, Inc. (Salem, NH), the System of Systems Consortium (SOSSEC), or SOSSEC Consortium, is an organization of over 1,000 members, consisting of industry, academia, and other non-profit entities.[310, 311] Technology capabilities include:

- Analytical modeling
- Architectural & engineering services
- Assured positioning, navigation, and timing (PNT)
- Border security

[310] AFCEA, "SOSSEC Inc.," accessed September 16, 2025.
[311] System of Systems Consortium (SOSSEC), Inc., "About Us," accessed September 16, 2025.

- Business analytics
- C2/C3/C4i technology development & prototyping
- Collaboration capabilities
- Communications
- Computer vision
- Critical infrastructure
- Cyber defense
- Cyberspace operations
- Data capture
- Data discovery, visualization, and analytics
- Data mining
- Electronic warfare
- Emergency response
- IED detection & neutralization
- Information assurance
- Integration of communications & data systems
- Intelligence exposure
- Intelligence production
- Intelligence, analysis, exploitation, and dissemination
- Intelligence, surveillance, reconnaissance, and targeting
- Mine, IED, and minefield detection and defeat
- Mission command capabilities and computing platforms
- Perimeter security
- Port security
- Propulsion technologies
- Reliability
- Robotics
- Search capabilities
- Sensors
- Situational awareness
- Smart building & automation systems
- Surveillance & warning
- Systems integration
- Tactical and deployed power
- Tactical and strategic networks.[312]

SOSSEC, Inc., which currently manages two consortia – SOSSEC and Sensors, Communications, and Electronics (SCEC) – and nine OTAs, "exists to manage

[312] SOSSEC, Inc., "SOSSEC Consortium: Our Members," accessed September 16, 2025.

consortium-based [DoD] OTAs by providing the expertise and infrastructure required to effectively and efficiently manage the OTA project life-cycle."[313] There are eight OTAs held by the SOSSEC Consortium per SSOSEC, Inc.;[314] however, up to three of the OTAs may have expired, judging by the contract end dates given in the Federal Procurement Data System (FPDS).

Table 13: SOSSEC Consortium OTAs

OTA Name	OTA ID Number	End Date (Option)
Air Force Life Cycle Management Center Consortium (AFLCMC/LP) Propulsion Consortium Initiative OTA (PCI 2.0	FA86262490005	Nov. 2025 (Nov. 2028)
Air Force Life Cycle Management Center Consortium Initiative (ACI) OTA	FA86041994050	Nov. 2023*
Air Force Life Cycle Management Center Consortium Initiative (AFLCMC/LPA) Propulsion Consortium Initiative (PCI) OTA	FA86261791000	Sept. 2024*
Air Force Research Lab Open Technology and Agility for Innovation (AFRL OTAFI) OTA	FA87502199000	Sept. 2026 (Sept. 2028)
Army Cyber Operations Broad Responsive Agreement (COBRA) OTA	W909MY229B001	Jul. 2028
Army Engineer, Research & Development Center (ERDC) Military Engineering OTA	W912HZ1990001	Jul. 2024*
National Geospatial-Intelligence Agency (NGA) Office of Ventures and Innovation (OVI) OTA	Not known	Not known
Supply Chain Consortium Initiative (SCCI) OTA	FA81091990001, FA81092590004	Jan. 2027

*Listed as an active OTA on SOSSEC's site but appears to have expired.

Source: Deltek GovWin IQ & Federal Procurement Data System

Consortium partnership

The government partners associated with each SOSSEC Consortium OTA are summarized below.

Table 14: SOSSEC Consortium OTAs – Funding & Contracting Agencies

OTA Name	Funding Agency	Contracting Agency
Air Force Life Cycle Management Center Consortium (AFLCMC/LP) Propulsion Consortium Initiative OTA (PCI 2.0	AFLCMC/LP (Propulsion Directorate)	AFLCMC/LP (Propulsion Directorate) Contracting
Air Force Life Cycle Management Center Consortium Initiative (ACI) OTA	AFLCMC	AFLCMC/PZI (Contracting)

[313] SOSSEC, Inc., "About Us," accessed September 16, 2025.
[314] SOSSEC, Inc., "SOSSEC Consortium," accessed September 16, 2025.

Air Force Life Cycle Management Center Consortium Initiative (AFLCMC/LPA) Propulsion Consortium Initiative (PCI) OTA	AFLCMC/LP (Propulsion Directorate)	AFLCMC/LP (Propulsion Directorate) Contracting
Air Force Research Lab Open Technology and Agility for Innovation (AFRL OTAFI) OTA	AFRL/RIEB (Intelligence Systems, Information Handling Branch)	AFRL Contracting Division
Army Cyber Operations OTA (COBRA)	Army DEVCOM C5ISR Center	Army Contracting Command - Aberdeen Proving Ground (ACC-APG)
Army Engineer, Research & Development Center (ERDC) Military Engineering OTA	U.S. Army Corps of Engineers, Engineer Research & Development Center (ERDC)	U.S. Army Corps of Engineers, Engineer Research & Development Center (ERDC)
National Geospatial-Intelligence Agency (NGA) Office of Ventures and Innovation (OVI) OTA	NGA (DoD)	Not known
Supply Chain Consortium Initiative (SCCI) OTA	Air Force Life Cycle Management Center (AFLCMC) Mobility Directorate	Air Force Sustainment Center (AFSC) PZAAC - Supply Chain, Strategic Support

Source: Federal Procurement Data System

Membership

The SOSSEC Consortium has over **1,000 industry, academic, and other non-profit members**. (See full membership list.) Per the SOSSEC Consortium Member Agreement, members must be eligible to receive federal funds from the DoD sponsors, maintain active DD 2345 (Military Critical Technical Data Agreement) certification, and "ha[ve] a related technology that is supportive of SOSSEC Consortium goals and areas of interest" and be "willing to make these technologies available for demonstrations and the formulation of potential solution sets." Foreign companies and institutions or businesses owned or substantially controlled by foreign companies, institutions, or individuals "may be granted [membership] on a case-by-case basis at the sole discretion of SOSSEC, Inc."[315]

Unlike most other consortia, the SOSSEC Consortium also has specific **cybersecurity requirements**, in line with, but not limited to, the most current versions of 48 CFR 52.204-21, FAR 52.204-21, DFARS 252.204-7012, NIST Special Publication (SP) 800-171, and NIST SP 800-171B.[316]

SOSSEC Consortium's **annual membership fee is $500**.[317]

[315] SOSSEC, Inc., "SOSSEC Consortium Member Agreement," April 10, 2021, 3-5.
[316] SOSSEC, Inc., "SOSSEC Consortium Member Agreement," April 10, 2021, 4.
[317] SOSSEC, Inc., "Register," accessed September 16, 2025.

Bid Opportunities

SOSSEC Consortium bid opportunities are only available to members.

Awards

SOSSEC Consortium awards do not appear to be disclosed publicly.

3.21 Undersea Technology Innovation Consortium (UTIC)

The Undersea Technology Innovation Consortium (UTIC), based in Middletown, RI, formed in 2016 as a nonprofit organization that brings together commercial, academic, and other nonprofit entities. Its mission is to facilitate "rapid development of innovative undersea and maritime technologies" that address pressing industry, defense, and security needs.[318] Managed by Advanced Technology International (ATI), UTIC focuses on these technology areas:

- Advanced materials
- Autonomy
- Communications
- Cybersecurity
- Energetics & power
- Modeling & simulation
- Ocean, environmental, & biological sciences
- Predictive analytics
- Sensors, electronics, & optics.[319]

UTIC was awarded the 3-year OTA for Undersea and Maritime Technology Innovation (OT IDV #N666041890001) in June 2018 by the Naval Undersea Warfare Center (NUWC), Division Newport. This initial OTA contract had as estimated worth of $20 million at minimum and $60 million maximum, with options to extend the agreement to 10 years total. NUWC exercised those options in 2021 and 2024. Currently, UTIC's OTA for Undersea and Maritime Technology Innovation (OT IDV #N666041890001) runs through June 2028.[320, 321, 322]

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[318] UTIC, "About: Mission & Goals," accessed September 4, 2025.
[319] UTIC, "Technology Areas," accessed September 4, 2025.
[320] "Transaction Information: OT IDV ID: N666041890001," *Federal Procurement Data System*, signed June 4, 2018; June 1, 2021; and May 23, 2024.
[321] NUWC, "NUWC Division Newport partners with Rhode Island consortium to foster faster undersea technology development," *CHIPS* (Department of the Navy Chief Information Officer and Naval Information Warfare Center Atlantic), June 20, 2018.
[322] UTIC, "UTIC Awarded Major Contract for Prototyping Leading Edge Undersea and Maritime Technology" (press release), June 6, 2018.

The Undersea and Maritime Technology Innovation OTA identifies 25 technology focus areas:

- Sensors & sonar
- Platform & payload integration
- Undersea warfare combat systems
- Communications
- Undersea warfare imaging
- Undersea distributed networked systems
- Electronics/optics/materials
- Passive sensing
- Undersea satellites
- Energy storage and release
- Virtualization
- Machine learning
- Threat monitoring
- Cooperative force torpedo defense
- Undersea warfare analysis
- Multi-domain fusion
- Electronic warfare
- Distributed and autonomous sensors
- Undersea warfare weapons and autonomous vehicles
- Autonomy
- Quantum computing
- Bio-inspired sensors
- Environmental sensing, monitoring, & prediction
- In-situ energy sources
- Multi-dimensional display.

Consortium Partnership

The Naval Undersea Warfare Center (NUWC), Division Newport, or NUWC Newport Division, under the Naval Sea Systems Command (NAVSEA), is the contracting activity for the Undersea and Maritime Technology Innovation OTA.

Membership

UTIC membership is open to businesses of any size, nonprofit entities, and academic institutions, per UTIC's Consortium Membership Agreement, provided that they first obtain a Military Critical Technical Data Agreement DD2345 Certification. As with many other OTA consortia, members must also:

- Be a U.S. firm or institution existing under U.S. laws and not an agency or instrumentality of a foreign government,
- Not be barred from contracting with or receiving funds from the federal government,
- Clearly demonstrate in their membership application that they are capable of making a technical contribution in UTIC OTA areas, and
- "Contribute their respective talents and resources to UTIC for activities such as periodic meeting attendance, committee and subcommittee participation, and other activities as may be appropriate."[323]

UTIC has 275 members, 67% of which are non-traditional contractors. Seven members are nonprofits, 10 are academic institutions, 80 are large businesses, and 178 of UTIC's members are small businesses. (See full membership list.)[324]

Dues, paid every January 1st, are **$1,500 for large businesses and $500 for all others** (including affiliate members).[325]

Bid Opportunities

UTIC bid opportunities are not posted publicly.

Awards

UTIC does not announce awards on the open web.

3.22 Vertical Lift Consortium

Managed by Advanced Technology International (ATI), the Vertical Lift Consortium (VLC), designed to develop prototype aviation technologies, is a collaboration of over 300 vertical lift organizations including large original equipment manufacturers, large contractors, suppliers, engine manufacturers, academia/ nonprofit, small vertical takeoff and landing organizations, and the Vertical Flight Society.[326]

VLC is a member of the **Aviation & Missile Technology Consortium (AMTC)**, whose only other member is the National Armaments Consortium (NAC). Also managed by ATI,

[323] UTIC, "Consortium Membership Agreement," version 4, effective July 1, 2022, 2-3.
[324] UITC, "Our Members," accessed September 5, 2025.
[325] UTIC, "Join," accessed September 5, 2025.
[326] Vertical Lift Consortium (VLC), "VLC: Vertical Lift Consortium," accessed September 11, 2025.

AMTC was specifically formed to "combine the distinct capabilities of vertical lift and armaments" to benefit its sponsor, the U.S. Army Combat Capabilities Development Command **(DEVCOM) Aviation and Missile Center (AvMC)**.[327] The Aviation and Missile Technology Consortium OTA (OT IDV #W9124P1990001), awarded in 2019, runs through **July 2028**. Its initial ceiling value of $2 billion has been raised to over $8.9 billion.[328, 329, 330] AMTC's technology focus areas span guided missiles, manufacturing and enabling/disruptive technologies, and aviation. See section 3.15 for more information on the AMTC OTA and the National Armaments Consortium (NAC).

Consortium Partnership

The Aviation & Missiles Technology Consortium (AMTC), whose two members are VLC and NAC, and its OTA are sponsored by the **Army Combat Capabilities Development Command (DEVCOM) Aviation and Missile Center (AvMC)**. The contracting activity is Army Contracting Command–Redstone Arsenal (ACC-Redstone or ACC-RSA), the largest contracting center in the U.S. Army. [331, 332, 333, 334]

Membership

VLC has **311 current members**, consisting of for-profit and non-profit entities – corporations, partnerships, LLCs, proprietorships, and academic or research and development organizations. 74% of members are non-traditional defense contractors.[335, 336] (See full membership list.) The member classes VLC recognizes are summarized below.

Table 15: Vertical Lift Consortium's Member Classification

[327] ATI, "Aviation & Missiles Technology Consortium," accessed September 11, 2025.
[328] ATI, "Aviation & Missiles Technology Consortium," accessed September 11, 2025.
[329] "Transaction Information: OT IDV ID: W9124P1990001," *Federal Procurement Data System (FPDS)*, signed March 12, 2019, last modified June 28, 2019.
[330] "Transaction Information: OT IDV ID: W9124P1990001," *FPDS*, signed May 2, 2025, last modified May 2, 2025.
[331] ATI, "Aviation & Missiles Technology Consortium," accessed September 11, 2025.
[332] "Transaction Information: OT IDV ID: W9124P1990001," *FPDS*, signed March 12, 2019, last modified June 28, 2019.
[333] "Transaction Information: OT IDV ID: W9124P1990001," *FPDS*, signed May 2, 2025, last modified May 2, 2025.
[334] U.S. Army Contracting Command, "Army Contracting Command–Redstone Arsenal," accessed September 12, 2025.
[335] VLC, "Current Members," accessed September 16, 2025.
[336] VLC, "Amended and Restated Bylaws if Vertical Lift Consortium, Inc.," August 8, 2024, 6.

Class	Description
Large Domestic OEM	Must have: (1) had at least $1 billion in vertical lift-related sales to the U.S. military during most recent fiscal year; (2) employ at least 500 engineers engaged in vertical lift-related research and development in the United States; **and** (3) have design authority for vertical lift aircraft.
Large Traditional	Must have at least $250 million in vertical lift-related sales to the U.S. military during most recent fiscal year.
Supplier	Must (1) produce or integrate equipment for vertical lift aircraft and technologies manufactured within the United States **or** (2) design and supply materials or products, perform systems integration, or provide other services or support for use in the vertical lift aircraft and technologies manufacturing process in the United States.
Academic & Non-Profit	Must be either (1) a U.S. university or (2) a U.S. nonprofit organization active in vertical lift research.
Small VTOL R&D	Must be a for-profit entity that is significantly involved in active research for vertical lift production, flight characteristics, performance, equipment, engines, avionics, transmissions, or related materials, or provides other services or support, for vertical lift aircraft and technologies manufactured within the U.S.
Engine	Must produce engines for vertical lift aircraft manufactured in the U.S.
Other Contractor	Membership Category for those who do not identify with one of the other Membership Categories

Source: VLC

As with most other DoD consortia, membership is limited to U.S. entities that are eligible to receive federal funds and have an active Military Critical Technical Data Agreement DD2345 certification.[337] To be eligible, potential members must also:

> "Clearly demonstrate in their membership application that they have an interest in the research and development (including prototype projects) of vertical lift aircraft and technologies and are **capable of making a technical contribution** to the advancement of the U.S. vertical lift aircraft and technologies industry."[338]

Annual membership dues are $500, billed each January.[339]

Bid Opportunities

AMTC solicitations, or Requests for Enhanced Whitepapers, are only available to AMTC (VLF and/or NAC) members; however, AMTC's solicitations page indicates the issue date of solicitations but not their subject or content. AMTC solicitations are issued **triennially**,[340] with most issuances containing more than one topic call.

[337] VLC, "VLC Member Application," accessed September 16, 2025.
[338] VLC, "Amended and Restated Bylaws if Vertical Lift Consortium, Inc.," August 8, 2024, 7.
[339] VLC, "Why Join?," accessed September 16, 2025.
[340] NAC, "Membership," accessed September 16, 2025.

Awards

According to AMTC's Awards listing, 33 awards were made in FY2022, 62 in FY2023, and 53 in FY2024, for an **average of 49 awards per year**. AMTC has made 36 awards in FY2025 as of early September. From FY2022 through FY2025, award amounts range from $15,000–$481.3 million.[341] Individual award amounts and awardees are listed on the site. For a sample of awards made in FY2025, see section 3.15.

[341] AMTC, "Awards," accessed September 16, 2025.