

## 2025 Current Fiscal Year Report: Defense Science Board

Report Run Date: 05/02/2025 03:35:16 AM

**1. Department or Agency**

Department of Defense

**2. Fiscal Year**

2025

**3. Committee or Subcommittee**

Defense Science Board

**3b. GSA Committee No.**

414

**4. Is this New During Fiscal Year?**

No

**5. Current Charter**

05/06/2024

**6. Expected Renewal Date**

05/06/2026

**7. Expected Term Date**

**8a. Was Terminated During Fiscal Year?**

No

**8b. Specific Termination Authority**

**8c. Actual Term Date**

**9. Agency Recommendation for Next Fiscal Year**

Continue

**10a. Legislation Req to Terminate?**

Not Applicable

**10b. Legislation Pending?**

Not Applicable

**11. Establishment Authority** Agency Authority

**12. Specific Establishment Authority**

Secretary of Defense Determination

**13. Effective Date**

06/26/1978

**14. Committee Type**

Continuing

**14c. Presidential?**

No

**15. Description of Committee** Scientific Technical Program Advisory Board

**16a. Total Number of Reports**

No Reports for this Fiscal Year

**17a.**

Open

0

**17b. Closed**

0

**17c. Partially Closed**

0

**Other Activities**

0

**17d. Total**

0

**Meetings and Dates**

No Meetings

**Current FY** **Next FY**

**18a(1). Personnel Pmts to Non-Federal Members**

\$0.00 \$0.00

<b>18a(2). Personnel Pmts to Federal Members</b>	\$0.00	\$0.00
<b>18a(3). Personnel Pmts to Federal Staff</b>	\$0.00	\$0.00
<b>18a(4). Personnel Pmts to Non-Member Consultants</b>	\$0.00	\$0.00
<b>18b(1). Travel and Per Diem to Non-Federal Members</b>	\$0.00	\$0.00
<b>18b(2). Travel and Per Diem to Federal Members</b>	\$0.00	\$0.00
<b>18b(3). Travel and Per Diem to Federal Staff</b>	\$0.00	\$0.00
<b>18b(4). Travel and Per Diem to Non-member Consultants</b>	\$0.00	\$0.00
<b>18c. Other(rents,user charges, graphics, printing, mail, etc.)</b>	\$0.00	\$0.00
<b>18d. Total</b>	\$0.00	\$0.00
<b>19. Federal Staff Support Years (FTE)</b>	0.00	0.00

**20a. How does the Committee accomplish its purpose?**

The DSB advises the Secretary and Deputy Secretary of Defense and/or the Deputy Secretary of Defense, through the Under Secretary of Defense for Research and Engineering (USD(R&E)); on scientific, technical, manufacturing, acquisition process, and other matters of special interest to the Department of Defense. The DSB directly supports the National Defense Strategy and the Secretary's top priorities by conducting studies, directed via approved Terms of References (ToRs). Through discussion and deliberation, the DSB provides independent advice and recommendations in the form of briefings and reports.

**20b. How does the Committee balance its membership?**

The Defense Science Board, composed of members designated from civilian life by the Under Secretary of Defense for Research and Engineering, makes recommendations on issues in areas such as scientific, technical, manufacturing, and matters of special interest to the Department of Defense. The Board is comprised of a balanced group of senior appointees representing a broad spectrum of the industrial, manufacturing, academic, and scientific communities who are recognized authorities in their fields of expertise. The Board consists of a core membership of 40 members augmented by ad hoc consultants who serve as special government employees on designated Task Forces.

**20c. How frequent and relevant are the Committee Meetings?**

The full Board meets approximately four times per year, in addition to meeting for Summer Study meetings. The majority of indepth investigation is accomplished by DSB Task Forces, Permanent Subcommittees, and Summer Studies, which usually meet once a month to accumulate data for the final report. The Task Forces, Subcommittees, and Summer Studies are chartered by a Terms of Reference issued by USD(R&E).

**20d. Why can't the advice or information this committee provides be obtained elsewhere?**

The Secretary of Defense determined that the independent advice on broad scientific and technical issues provided by the Board cannot be obtained from any other DoD advisory committee due to the unique and valuable talent, skills, and expertise of the members.

**20e. Why is it necessary to close and/or**

**partially closed committee meetings?**

Meetings are not closed to the public unless the DoD determines the items on the planned agenda meet the closed meeting provisions of Title 5 U.S.C., Section 552b(c). Pursuant to DoD policy closed meetings can only be authorized by the DoD Sponsor, the Under Secretary of Defense for Research and Engineering, and only after consultation with the Office of the DoD General Council .

**21. Remarks**

The following data was not reported in the FY24 ACR: Task Force on Balancing Openness and Security Across the DoD Academic Research Enterprise subcommittee completed work/activities, completed work/activities 6/15/2023. John Harvey, member, Permanent Subcommittee on Nuclear Weapons Surety, appointment end date 9/9/2024. Charles McMillan, member, Permanent Subcommittee on Nuclear Weapons Surety, appointment end date 9/9/2024. Task Force on 21st Century Industrial Base for National Defense Subcommittee, completed work/activities 9/11/2024. Task Force on Commercial Space System Access and Integrity Subcommittee completed work/activities 5/1/2024.

The following subcommittee members Appointment End Date was 5/1/2024: Mandy Vaughn; Bradford Tousley; Ellen Pawlikowski; Dhanurjay Patil; John Parker; Daniel Hastings; Laetitia Garriott de Cayeux; James Carlini; Alison Brown; David Brenizer; Kari Bingen; Michael Appelbaum. Task Force on DoD Dependencies on Critical Infrastructure Subcommittee completed work/activities 12/11/2023. The following subcommittee members Appointment End Date was 12/11/2023: David McRee; Paul Welch; James Tegnolia; James Shields; Erik Limpaecher;

Paul Kern; Huban Gowadia. The following subcommittee members Appointment End Date was 4/2/2024: Kevin Doxey; Judith Miller; Kathryn Condello. The following subcommittee members Appointment End Date was 5/10/2024: Robert Butler; Guy Beougher. Task Force on Future Cyber Warfighting Capabilities of the Department of Defense Subcommittee, completed work/activities 3/13/2024. The following subcommittee members Appointment End Date was 5/7/2024: Robert Giesler; Christopher Day; Timothy White; Mark Russell; David Ross; Charles Moore; Arthur Money; Richard Ledgett; Samuel Kinch; Melissa Hathaway; Priscilla Guthrie; Glenn Gaffney; Donald Duncan; Robert Butler. Task Force on Position, Navigation, and Timing Control Subcommittee completed work/activities 10/31/2023. The following subcommittee members Appointment End Date was 10/31/2023: Scott Stadler; Edward Powers; Anthony Kourepenis; George Klaus; Brent Grime; Willem de Vries; David Brenizer; John Betz. Task Force on Secure Electronic Processing Subcommittee completed work/activities 4/1/2024. The following subcommittee members Appointment End Date was 10/31/2023: Peter Verga; Robert Wisnieff; William Schneider; Sanjay Raman; John Manferdelli; Paul Kaminski; Robert Grossman; Eric Evans. Task Force on Strategic Options Subcommittee, disestablished and converted into Permanent Subcommittee on Strategic Options on 10/5/2023, completed work/activities 11/8/2023. The following subcommittee members Appointment End Date was 11/8/2023: David Whelan; William Schneider; Mark Russell; James Miller; John Manferdelli; Ronald Kerber; James Carlini. Task Force on Test and Evaluation Subcommittee completed work/activities 4/2/2024. The following subcommittee members

Appointment End Date was 4/2/2024: Heidi Perry;  
 Stephen Lewia; Edward Greer; Panos Datskos.  
 Task Force to Advise Implementation and  
 Prioritization of National Security Innovation  
 Activities Subcommittee completed work/activities  
 2/6/2024. The following subcommittee member  
 Appointment End Date was 4/2/2024: Michael  
 Bayer.

## Designated Federal Officer

Elizabeth J Kowalski Executive Director

Committee Members	Start	End	Occupation	Member Designation
Appelbaum, Michael	04/07/2022	04/25/2025	Immersive Wisdom	Special Government Employee (SGE) Member
Bernhard, Jennifer	04/07/2022	04/25/2025	University of Illinois at Urbana-Champaign	Special Government Employee (SGE) Member
Brown, Alison	04/07/2022	04/25/2025	NAVSYS Corporation	Special Government Employee (SGE) Member
Budil, Kimberly	04/07/2022	02/04/2025	Lawrence Livermore National Laboratory	Special Government Employee (SGE) Member
Carlini, James	03/07/2022	04/25/2025	Leidos	Special Government Employee (SGE) Member
Dixon, Fred	07/05/2023	04/25/2025	CORVUS Consulting LLC	Special Government Employee (SGE) Member
Díaz de la Rubia, Tomas	03/30/2022	04/25/2025	University of Oklahoma	Special Government Employee (SGE) Member

Evans, Eric	03/14/2022	04/25/2025	MIT Lincoln Laboratories	Special Government Employee (SGE) Member
Fallon, William	03/16/2022	04/25/2025	Private Consultant	Special Government Employee (SGE) Member
Garriott de Cayeux, Laetitia	04/21/2022	04/25/2025	Global Space Ventures	Special Government Employee (SGE) Member
Giesler, Robert	06/23/2023	04/25/2025	Johns Hopkins University Applied Physics Lab	Special Government Employee (SGE) Member
Green, Johney	04/07/2022	04/25/2025	National Renewable Energy Laboratory	Special Government Employee (SGE) Member
Grossman, Robert	03/09/2022	04/25/2025	University of Chicago.	Special Government Employee (SGE) Member
Hastings, Daniel	04/07/2022	04/25/2025	Massachusetts Institute of Technology	Special Government Employee (SGE) Member
Howard, Ayanna	05/09/2022	01/06/2025	The Ohio State University	Special Government Employee (SGE) Member
Hu, Evelyn	04/06/2022	04/25/2025	Harvard	Special Government Employee (SGE) Member
Jackson, Shirley Ann	04/06/2022	04/25/2025	Rensselaer Polytechnic Institute	Special Government Employee (SGE) Member
Johnson, Ashanti	05/18/2022	04/25/2025	East Central University	Special Government Employee (SGE) Member

Kaminski, Paul	03/09/2022	04/25/2025	Technovation, Inc.,	Special Government Employee (SGE) Member
Karagozian, Ann	04/06/2022	04/05/2026	UCLA	Special Government Employee (SGE) Member
Manferdelli, John	03/09/2022	04/25/2025	VMware	Special Government Employee (SGE) Member
McGrady, Katherine	03/30/2022	04/25/2025	Center for Naval Analyses,	Special Government Employee (SGE) Member
Miller, James	03/31/2022	04/25/2025	JHU APL	Special Government Employee (SGE) Member
Patil, Dhanurjay	03/09/2022	04/25/2025	Private Consultant	Special Government Employee (SGE) Member
Polansky, Gary	05/18/2022	04/25/2025	Sandia National Laboratories	Special Government Employee (SGE) Member
Raman, Sanjay	04/06/2022	04/25/2025	University of Massachusetts, Amherst	Special Government Employee (SGE) Member
Relman, David	05/13/2022	04/25/2025	Stanford University	Special Government Employee (SGE) Member
Selva, Paul	04/06/2022	01/21/2025	Private Consultant	Special Government Employee (SGE) Member
Sephus, Nashlie	07/06/2022	01/17/2025	Amazon Artificial Intelligence	Special Government Employee (SGE) Member



Shetty, Reshma	06/29/2022	04/25/2025	Ginkgo Bioworks	Special Government Employee (SGE) Member
Spector, Alfred	06/08/2022	04/25/2025	Private Consultant	Special Government Employee (SGE) Member
Tang, Vincent	04/06/2022	11/29/2024	Lawrence Livermore National Laboratory	Special Government Employee (SGE) Member
Temple, Dorota	04/06/2022	04/25/2025	RTI International	Special Government Employee (SGE) Member
Tighe, Jan	06/23/2023	04/25/2025	Private Consultant	Special Government Employee (SGE) Member
Tousley, Bradford	06/23/2023	04/25/2025	Raytheon Technologies	Special Government Employee (SGE) Member
Van Wie, David	04/06/2022	04/25/2025	Johns Hopkins University Applied Physics Laboratory	Special Government Employee (SGE) Member
Vaughn, Amanda	04/06/2022	04/25/2025	GXO, Inc.	Special Government Employee (SGE) Member
Verma, Dinesh	01/19/2024	04/25/2025	Stevens Institute of Technology	Special Government Employee (SGE) Member
Walker, Steven	02/01/2024	04/25/2025	Lockheed Martin	Special Government Employee (SGE) Member
Wisnieff, Robert	03/16/2022	04/25/2025	IBM	Special Government Employee (SGE) Member

Anastasio, Michael [Permanent Subcommittee on Nuclear Weapons Surety]	09/12/2022	04/25/2025	Private Consultant	Special Government Employee (SGE) Member
Burg, Roger [Permanent Subcommittee on Nuclear Weapons Surety]	07/17/2023	04/25/2025	Private Consultant	Special Government Employee (SGE) Member
Chambers, William [Permanent Subcommittee on Nuclear Weapons Surety]	04/05/2023	04/25/2025	Institute for Defense Analyses	Special Government Employee (SGE) Member
Hutton, Rhiannon [Permanent Subcommittee on Nuclear Weapons Surety]	07/12/2023	04/25/2025	Institute for Defense Analyses	Special Government Employee (SGE) Member
Lehman, Ronald [Permanent Subcommittee on Nuclear Weapons Surety]	07/17/2023	04/25/2025	Lawrence Livermore National Laboratory	Special Government Employee (SGE) Member
Pitt, Maurice [Permanent Subcommittee on Nuclear Weapons Surety]	07/05/2023	04/25/2025	Private Consultant	Special Government Employee (SGE) Member
Turpen, Elizabeth [Permanent Subcommittee on Nuclear Weapons Surety]	07/12/2023	04/25/2025	Octant Associates LLC	Special Government Employee (SGE) Member
Doxey, Kevin [Permanent Subcommittee on Strategic Options]	10/05/2023	04/25/2025	Private Consultant	Special Government Employee (SGE) Member
Bernard, Kenneth [Permanent Subcommittee on Threat Reduction]	07/17/2023	04/25/2025	Private Consultant	Special Government Employee (SGE) Member
Choi, Melissa [Permanent Subcommittee on Threat Reduction]	07/05/2023	04/25/2025	MIT Lincoln Laboratory	Special Government Employee (SGE) Member
Fischer, Anne [Permanent Subcommittee on Threat Reduction]	07/17/2023	04/25/2025	Intellectual Ventures	Special Government Employee (SGE) Member

Frincke, Deborah [Permanent Subcommittee on Threat Reduction]	07/12/2023	04/25/2025	Sandia National Laboratories	Special Government Employee (SGE) Member
Gosler, James [Permanent Subcommittee on Threat Reduction]	08/23/2023	04/25/2025	JHU/APL	Special Government Employee (SGE) Member
Harward, Robert [Permanent Subcommittee on Threat Reduction]	07/05/2023	04/25/2025	Shield AI	Special Government Employee (SGE) Member
Wheeler, Robert [Permanent Subcommittee on Threat Reduction]	07/17/2023	04/25/2025	Strategic Consulting Unlimited, LLC	Special Government Employee (SGE) Member
Whitesides, George [Permanent Subcommittee on Threat Reduction]	07/26/2023	04/25/2025	Harvard University	Special Government Employee (SGE) Member
Williams, Heather [Permanent Subcommittee on Threat Reduction]	07/17/2023	04/25/2025	Center for Strategic and International Studies	Special Government Employee (SGE) Member
Arkin, Adam [Study on Emerging Biotechnologies and National Security]	09/06/2023	02/14/2025	University of California Berkeley	Special Government Employee (SGE) Member
Chakraborty, Arup [Study on Emerging Biotechnologies and National Security]	02/15/2023	02/14/2025	MIT	Special Government Employee (SGE) Member
Endy, Andrew [Study on Emerging Biotechnologies and National Security]	07/05/2023	02/14/2025	Stanford University	Special Government Employee (SGE) Member
Kosuri, Sriram [Study on Emerging Biotechnologies and National Security]	07/12/2023	02/14/2025	UCLA; Octant	Special Government Employee (SGE) Member
Parker, Gerald [Study on Emerging Biotechnologies and National Security]	07/12/2023	02/14/2025	Texas A&M University	Special Government Employee (SGE) Member

Stearns, Timothy [Study on Emerging Biotechnologies and National Security]	04/26/2023	03/12/2025	Stanford University	Special Government Employee (SGE) Member
Catanzaro, Bryan [Task Force on Balancing Security, Reliability, and Technological Advantage in Generative Artificial Intelligence for Defense]	01/19/2024	02/14/2025	NVIDIA	Special Government Employee (SGE) Member
Kenney, Thomas [Task Force on Balancing Security, Reliability, and Technological Advantage in Generative Artificial Intelligence for Defense]	01/19/2024	02/14/2025	Google	Special Government Employee (SGE) Member
Lorica, Ben [Task Force on Balancing Security, Reliability, and Technological Advantage in Generative Artificial Intelligence for Defense]	04/24/2024	02/14/2025	Private Consultant	Special Government Employee (SGE) Member
Pham, Kathy [Task Force on Balancing Security, Reliability, and Technological Advantage in Generative Artificial Intelligence for Defense]	12/27/2023	02/14/2025	Workday	Special Government Employee (SGE) Member
Shah, Raj [Task Force on Balancing Security, Reliability, and Technological Advantage in Generative Artificial Intelligence for Defense]	02/28/2024	02/14/2025	Shield Capital	Special Government Employee (SGE) Member
Banerjee, Prithviraj [Task Force on Digital Engineering Capability to Automate Testing and Evaluation]	11/29/2022	11/28/2024	Ansys	Special Government Employee (SGE) Member
Fleischman, Jack [Task Force on Digital Engineering Capability to Automate Testing and Evaluation]	11/09/2022	11/08/2024	Lincoln Laboratory, Massachusetts Institute of Technology	Special Government Employee (SGE) Member
Nielsen, Paul [Task Force on Digital Engineering Capability to Automate Testing and Evaluation]	10/24/2022	10/23/2024	Carnegie Mellon University	Special Government Employee (SGE) Member
Zimmerman, Philomena [Task Force on Digital Engineering Capability to Automate Testing and Evaluation]	10/24/2022	10/23/2024	Private Consultant	Special Government Employee (SGE) Member

**Number of Committee Members Listed: 72**

## Narrative Description

The DSB advises the Secretary and Deputy Secretary of Defense and/or the Deputy Secretary of Defense, through the Under Secretary of Defense for Research and Engineering (USD(R&E)); on scientific, technical, manufacturing, acquisition process, and other matters of special interest to the Department of Defense.

**What are the most significant program outcomes associated with this committee?**

Checked if  
Applies

Improvements to health or safety	<input checked="" type="checkbox"/>
Trust in government	<input checked="" type="checkbox"/>
Major policy changes	<input checked="" type="checkbox"/>
Advance in scientific research	<input checked="" type="checkbox"/>
Effective grant making	<input type="checkbox"/>
Improved service delivery	<input type="checkbox"/>
Increased customer satisfaction	<input type="checkbox"/>
Implementation of laws or regulatory requirements	<input type="checkbox"/>
Other	<input type="checkbox"/>

**Outcome Comments**

Not Applicable

**What are the cost savings associated with this committee?**

Checked if Applies

None	<input type="checkbox"/>
Unable to Determine	<input checked="" type="checkbox"/>
Under \$100,000	<input type="checkbox"/>
\$100,000 - \$500,000	<input type="checkbox"/>
\$500,001 - \$1,000,000	<input type="checkbox"/>
\$1,000,001 - \$5,000,000	<input type="checkbox"/>
\$5,000,001 - \$10,000,000	<input type="checkbox"/>
Over \$10,000,000	<input type="checkbox"/>
Cost Savings Other	<input type="checkbox"/>

**Cost Savings Comments**

The total savings is impossible to determine due to the complex mix of savings, cost

avoidance, and increased capability.

**What is the approximate Number of recommendations produced by this committee for the life of the committee?**

2,153

**Number of Recommendations Comments**

The DSB existed before FACA. The total number of recommendations since 1956 is approximate. In FY24 the DSB issued 167 recommendations. 2023 Summer Study: 30 recommendations NSIA: 4 recommendations ARE: 25 recommendations Cyber: 22 recommendations TE: 24 recommendations DE: 11 recommendations PNT: 21 recommendations DCI: 28 recommendations Threat Reduction: 2 recommendations

**What is the approximate Percentage of these recommendations that have been or will be Fully implemented by the agency?**

45%

**% of Recommendations Fully Implemented Comments**

The DSB has been providing recommendations since 1956. DSB recommendations often deal with new concepts and capabilities. Quite often, after additional study, DoD attempts to incorporate those concepts and capabilities that it finds relevant to its mission. Interest in previous studies remains strong.

**What is the approximate Percentage of these recommendations that have been or will be Partially implemented by the agency?**

30%

**% of Recommendations Partially Implemented Comments**

The DSB has been providing recommendations since 1956. Recommendations influence the Department and some are still under deliberation. DSB recommendations often deal with new concepts and capabilities. Quite often, after additional study, DoD attempts to incorporate those concepts and capabilities that it finds relevant to its mission. Interest in previous studies remains strong.

**Does the agency provide the committee with feedback regarding actions taken to implement recommendations or advice offered?**

Yes ☒ No ☐ Not Applicable ☐

**Agency Feedback Comments**

The DSB requests comment from interested parties when issuing a report. Comments are published when received. The public can obtain information on Agency feedback in the posted unclassified meeting minutes for the Board.

**What other actions has the agency taken as a result of the committee's advice or recommendation?**

Checked if Applies

Reorganized Priorities	<input checked="" type="checkbox"/>
Reallocated resources	<input checked="" type="checkbox"/>
Issued new regulation	<input type="checkbox"/>
Proposed legislation	<input type="checkbox"/>
Approved grants or other payments	<input type="checkbox"/>
Other	<input type="checkbox"/>

**Action Comments**

DSB recommendations often deal with new concepts and capabilities. Quite often, after additional study, DoD attempts to incorporate those concepts and capabilities that it finds relevant to its mission. Interest in previous studies remains strong.

**Is the Committee engaged in the review of applications for grants?**

No

**Grant Review Comments**

NA

**How is access provided to the information for the Committee's documentation?**

Checked if Applies

Contact DFO	<input checked="" type="checkbox"/>
Online Agency Web Site	<input type="checkbox"/>
Online Committee Web Site	<input checked="" type="checkbox"/>
Online GSA FACA Web Site	<input checked="" type="checkbox"/>
Publications	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>

**Access Comments**

N/A