

Army Science Board

Subcommittee Terms of Reference

Basic Sciences and Enabling and Disruptive Technologies Subcommittee

1. Overview: As authorized by the Secretary of Defense and the Secretary of the Army and pursuant to the Federal Advisory Committee Act of 1972 and Government in the Sunshine Act of 1976, the Chairman of the Army Science Board (ASB) establishes the Basic Sciences and Enabling and Disruptive Technologies Subcommittee. The following Terms of Reference (TOR) outline the duties and responsibilities of the subcommittee in accordance with the ASB charter (May 2022).

2. Mission Statement: The Basic Sciences and Enabling and Disruptive Technologies Subcommittee, as part of the ASB, shall provide advice and recommendations to the ASB for its thorough deliberation and decision at a properly noticed ASB meeting on matters relating to the Army's research in basic sciences and enabling and disruptive technologies, to include:

- a. Soldier performance enhancement, cognition improvement, and training.
- b. Autonomous systems and human-machine teaming.
- c. Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE).
- d. Countering Weapons of Mass Destruction (CWMD).
- e. Energetics.
- f. Material science.
- g. Emerging technologies, e.g., artificial intelligence (AI), machine learning (ML), additive manufacturing, quantum computing, human enhancement, etc.

The subcommittee shall not work independently of the ASB and shall report all its recommendations and advice solely to the ASB for its thorough deliberation and discussion at a publicly noticed and open ASB meeting, subject to the Sunshine Act. The subcommittee has no authority to make decisions or recommendations, orally or in writing, on behalf of the ASB. Neither the subcommittee nor any of its members may provide updates or report, orally or in writing, directly to the DoD or any Federal officer or employee, or member of the Armed Forces.

Neither this subcommittee nor the ASB shall advise senior leaders on individual Department of Defense (DoD) or Department of the Army acquisitions, nor require any subcommittee member to be placed in the position of acting as a contracting or procurement official, which may constitute a conflict of interest.

3. Methodology: The subcommittee may incorporate and apply any of several methodologies including, but not limited to, reviews of the literature, interviews, and briefings necessary to support ASB study teams conducting work on topics related to the subcommittee's scope.

4. Tasks: The subcommittee shall support individual ASB study teams with expertise in its related fields. In addition, the subcommittee shall maintain cognizance of the Army's activities in its related fields, to include research and development, maintenance of the science and technology base, budgeting, policy, strategy, doctrine, and other factors that further the conduct of ASB study teams. At a minimum, the subcommittee will report annually to the ASB Chair on its activities.

5. Support: The Executive Director of the ASB and the Office of the Assistant Secretary of the Army for Acquisitions, Logistics, and Technology (ASA(ALT)) will provide the necessary logistical and administrative support to the subcommittee to conduct its business as assigned.