



NDIA Emerging Technologies Institute

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NDIA has established the ETI



- **Director Dr. Mark Lewis (former USD(R&E) Director of Modernization)**
- **An in-house research team (full- and part-time) with expertise in select emerging defense technologies and related policy**
 - Building on the 2018 NDS: AI, autonomy, biotech, cyber, directed energy, FNC3, hypersonics, microelectronics, quantum, space
 - Other issues: barriers to entry, innovation, bridging the “valley of death,” etc.
- **Build teams of experts from industry and academia to tackle defense technology issues**
 - Leverage expertise of member companies and individuals in NDIA
 - But...ETI is *independent* and *objective*
- **Produce high-quality reports that will meet the needs of government and industry decision makers**
- **Convene panels, workshops, and other forums for the discussion of emerging technology issues**
- **Meet directly with key stakeholders to present findings and results, as well as use latest tools (podcasts, social media) to engage the broader community**
- **Mentor early career scholars on defense technology issues**

NDIA BY THE NUMBERS

6 STRATEGIC PRIORITIES



8,600
of NDIA's individual members are **Military or Government**



53,500
of NDIA's individual members are **Industry**



79% of NDIA's corporate members are **Small Businesses***

*\$25 million or less in defense revenue annually

NDIA engages all **3** branches of government



1 MILLION
PAGE VIEWS ANNUALLY

3 AFFILIATE ORGANIZATIONS



Emerging Technologies Institute



National Training and Simulation Association



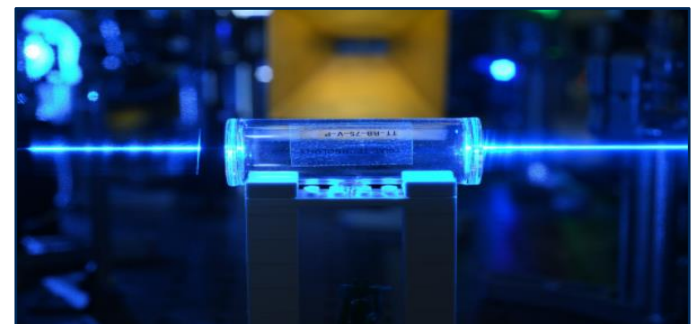
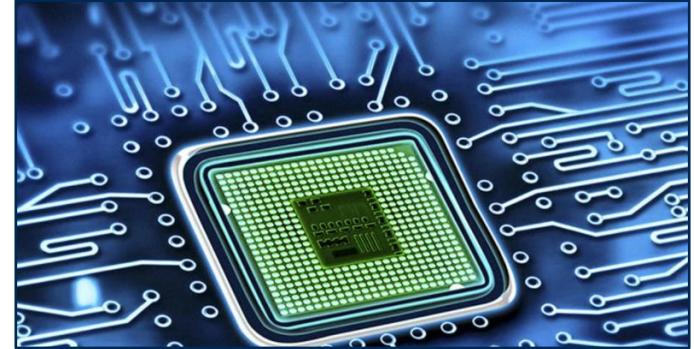
Women in Defense

AT THE HEART OF THE MISSION SINCE 1919



R&E Critical Technology Areas

- **Seed Areas of Emerging Opportunity**
 - Biotechnology
 - Quantum Science
 - FutureG
 - Advanced Materials
- **Effective Adoption Areas**
 - Trusted AI and Autonomy
 - Integrated Network System of Systems
 - Microelectronics
 - Space Technology
 - Renewable Energy Generation and Storage
 - Advanced Computing and Software
 - Human Machine Interfaces
- **Defense-Specific Areas**
 - Directed Energy
 - Hypersonics
 - Integrated Sensing and Cyber



Other Topics of Interest to ETI

- *Defense Industrial Base/Supply Chain*
- *Acquisition timelines, transition, budget constraints*
- *Legislative and policy context*
- *International partnerships*
- *Test and Evaluation*
- *Digital Engineering/M&S*
- *Workforce*
- *Academic-Industry partnerships*
- *Whole of government research and engineering initiatives*

Progress so far...

- Staffing
- Emerging Tech Horizons [podcast](#)
- Reports ([The Modernization Quandary](#), [Digital Engineering](#), [Vital Signs](#))
- “[Enabling the Joint Warfight](#)” webinar series
- DOD Webinars: [PB23 S&T Budget Rollout Event](#), [Working with DIU](#)
- Workshops on modernization areas (hypersonics, microelectronics, ...)
- Emerging Technologies Supply Chain study
- Launching educational series on tech for NDIA members in May
- Meeting with member companies, Divisions, and Chapters

Good News Stories

- **Bad news seems to travel much faster than good news**
- **ETI/S&ET Division can work together to capture and disseminate good news stories**
- **Audience**
 - People who can help with funding and policy challenges
 - Senior leaders in Pentagon (uniformed and civilian)
 - Congress, including GAO
 - Outside advocacy groups (industry, academia, think tanks)
 - Potential Industry and Academic R&D Performers
 - Quality research
 - Transition into development activities
 - Transition into defense and commercial sales
 - Future workforce
 - Excitement of the work and success
 - Not just “service”
- **Methodologies**