In December 2016, Purdue University held the Global Security and Defense Symposium that established the Institute for Global Security and Defense Innovation (i-GSDI), an organization dedicated to helping solve the complex defense problems of the 21st Century.

THE CONSORTIUM
A primary goal of i-GSDI is to create a consortium of organizations from the government and industry defense community, coupled with Purdue University’s world class expertise in the areas of science, engineering and policy to create a collaborative environment for solving defense problems and producing solutions.

PROBLEM SOLVING
Working together, consortium members work with Purdue innovators to uncover the most pressing requirements and organize the synergistic capacity. Together these entities generate the momentum to solve our toughest defense challenges.

MISSION
The Institute will converge Purdue’s interdisciplinary resources to bring timely, responsive and transformative solutions to the most pressing security and defense challenges facing the nation and the world.

FOCUS AREAS
To our Department of Defense partners we offer solutions that otherwise may not have been found. To our corporate partners we provide an intelligent and integrated network for defense security requirements and innovation. For the university we provide relevant issues to focus academic science and research.
Consortium focus areas include:

- Nanotechnology
- Hypersonics
- Trusted Microelectronics
- Digital Transformation
- “AI+”, the combination of novel algorithms with advanced computing, autonomy architectures, adaptive materials, etc.
- Big data/simulation/cyber security
- Research in Autonomous and cognitive systems
- Novel solutions in propulsion, energetics, and thermal management
- New approaches in cyber defense, advanced electronic, photonics and systems of systems design and architecture
WHY PURDUE?
What makes Purdue different from other universities is an open collaborative environment coupled with a focus on incubating and commercializing new technologies. Purdue provides the structure and faculty to work with businesses who have new ideas to mature and bring to market with minimal overhead. Purdue University has established organizations and programs like the Purdue Research Foundation and the Purdue Foundry, both dedicated to entrepreneurship and innovation. These factors combined to support the Purdue iGDSI consortium and postures Purdue to help solve the defense challenges of the future.

JOIN THE i-GSDI CONSORTIUM
For our DoD partners, joining the consortium is easy. There is no cost or commitment. Bring us your challenges, and we will broadcast those challenges within our network of academic and industry partners. We will setup and facilitate exchanges that will allow you to share your challenges, and to find the right partners to help solve those problems.

CURRENT PARTNERS & CONSORTIUM MEMBERS:
- Center for Radiological and Nuclear Security (CRANS)
- Draper Fellow Program
- Indiana Innovation Institute (IN3)
- Indiana Office of Defense Development (IODD)
- Lockheed Martin Corporation
- McKinney Associates
- Mercury Systems, Inc
- Military Research Institute (PMRI)
- Naval Surface Warfare Center-Crane Division (NSWC-Crane)
- Purdue Energetics Research Center (PERC)
- Purdue Research Foundation (PRF)
- Purdue’s Center for Education and Research in Information Assurance and Security (CERIAS)
- Sandia National Laboratories (SNL)
- The Purdue Policy Research Institute (PPRI)
- US Army Research Laboratories (ARL)
- Crane Army Ammunition Activity (CAAA)

CORE i-GSDI FUNCTIONS:
- Create “intelligent networks” of innovation and foster new solution ideas across campus and with partners for defense/security innovation and translation.
- Develop strategic joint partnerships with research agencies and industry leaders to accelerate ‘private-public’ collaboration and productivity.
- Be the lead technical agent for bringing talent to the Purdue ecosystem, and facilitate the transition of human capital (our students) to defense/security partners.
- Exemplify agility by building a dedicated, responsive team that uses management and contracting expertise to provide flawless program execution and fulfill mission needs.
- Demonstrate Purdue’s “Strategic Intent” to government and industry stakeholders, showing that we will partner and execute on major challenges with appropriate security, IP sensitivity, and speed.

CURRENT CONSORTIUM MEMBERS

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