



Forging the Future of Defense with the National Security Institute

The **Penn State National Security Institute (NSI)** advances national security solutions through interdisciplinary research and strategic partnerships with government and industry. Building on a legacy of impactful technologies and enduring collaborations, the Institute strengthens the nation's safety and resilience while developing the next generation of security-focused researchers and leaders. By integrating expertise across disciplines and leveraging Penn State's unparalleled scale, NSI serves as a unifying engine for innovation and impact. NSI is not a policy institute. It is a research-driven engine designed to translate academic breakthroughs into real-world solutions for defense, homeland security, and allied industries.

At Penn State, we are a university of innovators and makers where faculty and students turn research into prototypes, products, and real-world impact.

A National Security Advantage

Scale and Breadth

As one of the world's largest research universities, Penn State brings exceptional depth across disciplines, campuses, and partnerships with the Applied Research Lab—enabling a level of impact few institutions can match.

Enduring Reach

A global alumni network and long-standing external partnerships extend NSI's influence well beyond campus.

Research Excellence

Top-tier capabilities across engineering, science, materials, energy, robotics, and aerospace form the foundation of National Security Institute work.

Translational Impact

A proven model that turns discovery into deployable, licensable solutions with impact beyond the lab.



PennState
National Security Institute

Learn more about the National Security Institute nsi.psu.edu or nsi@psu.edu

From Discovery to Impact

For decades, Penn State has been a trusted leader in defense research. The new NSI expands that commitment by creating a university-wide network that connects the campuses, government agencies, and industry partners to accelerate research into real-world security solutions and develop a highly skilled, mission-ready workforce. NSI is designed to collaborate with Penn State's Applied Research Laboratory by unleashing both the intellectual and infrastructure capacity of the entire University.

National Security Institute Technical Pillars



Aeronautics,
Hypersonics, &
Space



Materials &
Advanced
Manufacturing



Electro-Optics



Warfighter
Support



Autonomy &
Robotics



Cybersecurity



Biotechnology



Leadership
Domains

Partner with us to accelerate research to mission-ready solutions.

The Penn State National Security Institute builds on decades of impact while addressing the security challenges of today and tomorrow. By bridging discovery and deployment, NSI is accelerating research today, developing leaders for tomorrow, and delivering mission-ready solutions for our nation.



Learn more at nsi.psu.edu or email nsi@psu.edu



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