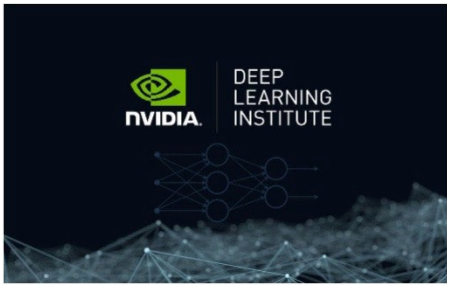
NPS-NVIDIA PARTNERSHIP INITIATIVE

DELIVER INNOVATIVE EDUCATION AND TRAINING



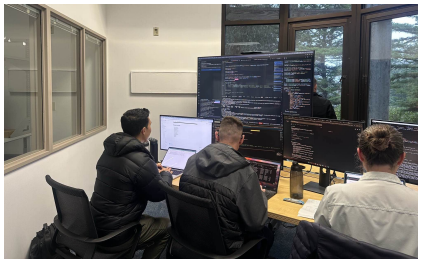
The education line of effort in the NPS-NVIDIA Partnership is focused on rapidly developing an AI-ready naval workforce through tiered, hands-on, and mission-relevant education and training that aligns with the operational needs of the Navy and Marine Corps. Leveraging NVIDIA's Deep Learning Institute (DLI), NPS provides cutting-edge instruction to AI users, advanced users, developers, and decision-makers across the Department of the Navy. This in-cludes foundational training in AI concepts, immersive lab experiences with real-time simula-tions, and advanced developer-level coursework tailored to naval challenges. Executive-level education is also offered to senior military and civilian leaders, ensuring they can make in-formed, strategic decisions about AI adoption and integration. Through this comprehensive approach, the partnership ensures that users, developers, and leaders at every level are equipped to understand, innovate with, and lead the application of AI technologies across the maritime domain.

DEPLOY CUTTING-EDGE HARDWARE AND AI STACK

The infrastructure line of effort in the NPS-NVIDIA Partnership is designed to provide the advanced com-puting backbone necessary to support world-class AI education, experimentation, and solution develop-ment. This includes the integration of cutting-edge hardware such as NVIDIA DGX systems, Blackwell-class GPUs, Jetson edge devices, and the Omniverse platform that enable high-fidelity modeling, simulation, and real-time AI experimentation. These resources are deployed across unclassified, CUI, and classified envi-ronments to support research and prototyping at all classification levels. The infrastructure also facilitates hands-on learning, high-performance training of large-scale AI models, and the deployment of AI solutions at the tactical edge. By embedding this capability at NPS, the partnership ensures that students, faculty, and operational partners have continuous access to the tools necessary to design, test, and scale AI technolo-gies that meet the unique demands of naval operations and return exquisite AI talent to the Fleet.

COLLABORATE ON SOLVING NAVY/MARINE CORPS PROBLEMS

The problem-solving line of effort in the NPS-NVIDIA Partnership transforms NPS into a collaborative space where operational challenges from the Navy and Marine Corps are trans-lated into focused, AI-enabled solutions. Leveraging the NPS-NVIDIA Cooperative Research and Development Agreement (CRADA) operators, NPS researchers, and NVIDIA experts accelerate the development and prototyping of technologies that directly address capability gaps ranging from autonomous systems and predictive maintenance to decision-sup-port tools and digital twins. Through rapid iteration, real-world data, and domain-informed experimentation, the partnership shortens the timeline from concept to capability. It also enables the creation of testbeds and operationally relevant use cases in secure environments, ensuring prototypes are mission-ready and scalable. This collaborative model not only drives innovation but ensures every solution is grounded in naval priorities and built for impact in contested, operational settings.



NVIDIA AI TECH CENTER AT NPS

The NVIDIA AI Tech Center at the Naval Postgraduate School is a dedicated innovation hub designed to foster collaboration, experimentation, and hands-on development of mission-relevant artificial intelligence solutions. Modeled after successful NVIDIA community tech centers, it brings together students, faculty, industry experts, and military partners in a shared space equipped with cutting-edge AI hardware, software platforms like Omniverse, and high-performance compute resources. The center serves as a launchpad for solving real-world operational challenges, hosting workshops, training sessions, and collaborative prototyping efforts that accelerate AI adoption across the naval enterprise. By embedding this capability at NPS, the Tech Center creates a dynamic environment where ideas are rapidly transformed into deployable solutions that directly enhance mission readiness.