The Energy Academic Group (EAG) brings together an interdisciplinary group of Naval Postgraduate School (NPS) faculty to provide coordination and awareness for all education, research, and outreach activities in support of energy activities at NPS. The EAG develops and maintains NPS as a Navy Center of Excellence for Energy Graduate Education and Research.

LT Omari Buckley, a student in the Mechanical Engineering curriculum, demonstrates the capabilities of NPS’ Biofuels Testing Facility to Secretary of the Navy Ray Mabus. (U.S. Navy photo by Javier Chagoya)

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For more information about the Energy Academic Group, visit nps.edu/energy
Academic Programs

Our curricula responds to the Secretary of the Navy’s (SECNAV) mandate to construct a world-class energy education program at the Naval Postgraduate School (NPS). To achieve this goal, the Naval Postgraduate School brings together a cadre of energy professionals knowledgeable in energy science, technology, policy, management and analysis.

Graduate Degree Programs

Four graduate degree programs at NPS offer energy specialty tracks. These defense-focused tracks are designed to provide officers and U.S. Department of Defense (DoD) civilians an advanced education in interdisciplinary approaches to problem-solving, analysis and technical expertise within the energy realm.

The energy tracks are embedded within four existing degree programs and graduates earn a degree in a traditional area of study, with a specialty in energy.

Operations Analysis (OA)

*Master of Science in Operations Research*

Operations Analysis is the development and application of mathematical models, statistical analyses, simulations, analytical reasoning, and common sense to the improvement of real-world operations. Practitioners are called on to advise military and civilian decision makers on the allocation of scarce resources, the selection of new equipment and processes, and the optimal deployment of given resources to achieve required missions.

Naval/Mechanical Engineering

*Master of Science in Mechanical Engineering*

This program provides graduate education, primarily in the field of naval/mechanical engineering with a focus on energy, including production, storage, and use. This program is designed to produce graduates with the technical competence to operate and maintain modern warships and naval systems. It establishes a broad background of basic engineering knowledge leading to advanced studies in heat transfer, fluid mechanics, control systems, solid mechanics and vibrations, material science, energy production, storage and usage.

Electronic Systems Engineering

*Master of Science in Electrical Engineering*

This program is designed to educate officers in current electronics and power systems technology and its application to modern naval warfare, particularly as it applies to energy consumption and production. It establishes a broad background of basic engineering knowledge, leading to selected advanced studies in electronic systems and ship power control systems. It will enhance individual performance in all duties throughout a naval career, including operational billets, technical management assignments, and policy making positions, thereby preparing Naval officers for progressively increasing responsibility, including command, both ashore and afloat.

Financial Management

*Master of Business Administration*

This program provides an advanced education in energy-related problem solving and prepares officers for business, financial, and analysis positions within the U.S. Department of the Navy and the U.S. Department of Defense. Graduates will be prepared for assignment to positions in strategic planning, business analysis, financial analysis, budgeting, accounting, business and financial management, and internal control systems and auditing.

Energy Academic Certificate

NPS offers an academic certificate program in energy. Designed to support the SECNAV’s energy goals, the certificate program is ideal for resident NPS students who are interested in the energy realm but not enrolled in one of the four mentioned graduate degree programs. Students can complete the certificate program while attending any NPS degree program.

Find out more

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