MISSION

THE MOVES INSTITUTE
Where technical meets tactical.

The Modeling, Virtual Environment, and Simulation Institute's mission is to enhance the operational effectiveness of our joint forces and our allies by providing superior training and analysis products, education, and exemplary research in the field of modeling and simulation.

SYSTEMS ENGINEERING DEPARTMENT
The SE Department provides relevant, tailored, and unique advanced education and research programs in Systems Engineering in order to increase the combat effectiveness of US and Allied armed forces and to enhance the security of the United States.

THE NAVAL POSTGRADUATE SCHOOL
The Naval Postgraduate School is America's national security research university. The mission of the University is to provide high-quality, relevant and unique advanced education and research programs that increase the combat effectiveness of the Naval Services, other Armed Forces of the U.S. and our partners, to enhance our national security.

CONTACT INFORMATION

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For more information on the M&S Management Certificate program:
www.movesinstitute.org/education.html
Apply online at:
www.nps.edu/Academics/Admissions

Brochure cover 3D graphic provided by:
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LT, Brazilian Navy, MOVES M.S. Student

Brochure Produced by:
Naval Postgraduate School
Center for Educational Design, Development, and Distribution
The Modeling and Simulation (M&S) Management Certificate consists of four courses designed to enable DoD and other federal workforce members to efficiently apply M&S tools to support acquisition activities throughout a program lifecycle. M&S acquisition requires substantial up-front planning and unique considerations for their effective use. The M&S Management Certificate program is targeted for students who seek further knowledge regarding the purposeful, effective application of M&S systems to support the acquisition lifecycle. It is designed to increase the technical, analytical and managerial skills of M&S professionals, for example, personnel in the DoD Acquisition Workforce and active duty officers.

**Student Eligibility**
The student must have a baccalaureate degree with above-average grades. Familiarity with the basics of acquisition management is an assumed prerequisite. For example, NPS MN3331 or DAU ACQ101 satisfy this prerequisite. Active duty Navy officers take this certificate at no cost except for textbooks.

The courses for this certificate were developed with grants from NMSO and the Defense Modeling and Simulation Community.

**Program Management**: Prepare students for assignments related to the application of M&S to research, design, development, procurement, integration, maintenance, and life cycle management of systems for defense and national security.

**Operational Utilization**: The educational foundation will allow students to understand the capabilities and limitations of M&S and to effectively manage M&S in diverse military settings.

**Student Presentation**
Simulator in Action

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**OBJECTIVES**

Prepare students for roles requiring an understanding of how M&S systems are acquired, implemented and supported to provide the warfighter the skills and tools required for mission success.

**MODELING AND SIMULATION CERTIFICATE COURSES**

The M&S Management Certificate is taught using web-based delivery, allowing students anywhere in the world to enroll.

**MV/SE3101 Introduction to M&S in DoD**
A solid foundation in the origin, evolution, breadth and importance of DoD modeling and simulation (M&S), and the utilization of M&S in DoD system acquisition life cycle

**SE3420 M&S in Acquisition I**
Examines pre-acquisition M&S activities and identifies the appropriate M&S approach for a given task in the initial phases of the acquisition life cycle

**SE4420 M&S in Acquisition II**
Appropriate application of M&S tools in the final phases of the acquisition life cycle, including M&S for sustainment and training support

**MV4460 Management of M&S**
Prepares the student to enter the world of modeling and simulation requirements, implementation, testing, and deployment phases as a manager

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**OVERVIEW**

Designing the right solution to the right problem—on-time, on-budget, supportable, and with minimal risk.

The certificate also serves as the gateway into a distance-learning degree in M&S for Acquisition and the resident Master of Science degree in Modeling, Virtual Environments, and Simulation. Completing this certificate reduces the time to obtain the Master of Science.

This certificate is offered jointly by faculty of the Modeling, Virtual Environments and Simulation (MOVES) Institute and the Systems Engineering Department at the Naval Postgraduate School in Monterey, California.

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