

**Proposed Core Skill Requirements (CSR)**  
**Modeling, Virtual Environments and Simulation Curriculum 399**  
**Subspecialty Code: 6202**

1. Duties: The Modeling and Simulation subspecialty code (6202) is intended to provide a command with an officer possessing technical expertise related to the development, acquisition, and use of modeling and simulation (M&S) in support of Naval operations and systems acquisition. Billets with this subspecialty code require personnel to possess skills and competencies in the history and fundamentals of M&S including applied mathematics, computer systems, virtual environments, training and human systems, M&S systems lifecycle management, and system, physical, and combat modeling. The following is a representative sample of requirements for which this subspecialty applies:

a. Application of M&S as part of the process for major system acquisition and developing the appropriate documentation.

b. Application of M&S technology within DoD systems, to include system modeling, combat modeling, modeling of physical phenomena, visual and distributed simulation, and verification, validation, and accreditation (VV&A) of models for DoD use.

c. Development and maintenance of M&S technology, including requirements specification, design, implementation, testing, maintenance, and process metrics, and use of modern software tools in the construction of virtual environments and simulation systems.

d. Development, maintenance, application and management of DoD virtual environment technology. Specific areas include virtual and augmented reality, human-computer interfaces and interaction, real-time 3D computer graphics, visualization, and distributed and networked simulations.

e. Management and implementation of training systems incorporating M&S technology. Areas of specific interest include human behavior modeling, study, and analysis of human factors, and development and evaluation of human performance metrics.

2. Representative Billets:

- a. Space PJ Tech/Space Systems Project Engineer
- b. Space Acquisition/Engineering Officer
- c. Operations Analysis/Irregular Warfare Ops Analysis
- d. TACTRAGRUPAC Information Systems
- e. Manpower Planner/Special Assistant/Manpower Development/MILPERS

3. Requirements: This subspecialty code can be earned through graduate education (MOVES curriculum at NPS or other regionally accredited source which meets the applicable ESRs) or an experience tour in a designated billet. NPS would evaluate civilian institutions for consideration for approval of P (masters level) or D (doctorate level coding). If experience is coupled with a degree, then a Q or C code would apply.

4. Qualified Designators 1000/ 1001-1019 / 1021-1049 / 1050/  
1051-1099 / 1100-1109 / 1110-1119 / 1120-1129 / 1130-1139 /  
1140-1159 / 1160-1169 / 1170-1179 / 1180-1189 / 1190-1199 /  
1200-1299 / 1200-1209 / 1300-1399 / 1400-1499 / 1510-1519 /  
1600-1609 / 1610-1629 / 2300-1499