

**CORE SKILL REQUIREMENTS (CSRs)**  
**Engineering and Technology (General)**  
**Subspecialty Code 5000X**

Billet subspecialty coding is to be based on the minimum education/training/experience level required for optimum performance. Engineering and Technology (General)/5000X subspecialty coding is justified when, in addition to the general criteria stated in NAVPERS 15839 series (Manual of Navy Officer Manpower and Personnel Classification) Part B, the following specific criteria are satisfied:

1. Description of CSR Competencies. The Engineering and Technology (General) subspecialty code (5000X) will provide a command with an officer possessing a broad based engineering background in any one of the classical technical engineering and/or science disciplines such as, but not specifically limited to, mechanical engineering, electrical/electronic engineering, nuclear engineering, naval architecture, chemical engineering, aeronautical engineering, astronautical engineering, aerospace engineering, systems engineering, space systems engineering, civil engineering, ocean engineering, computer engineering, material science, chemistry, or physics (but not biology or engineering management). Specific capabilities / requirements generally include:
  - a. **CSR-1:** The ability to identify, formulate, and solve engineering and/or technical problems, including competence in research, design, development, procurement, operation and or maintenance in scientific and/or technical engineering fields. This would include the ability to prepare technical and/or operational briefings, project plans, and reports.
  - b. **CSR-2:** The ability to understand the impact of engineering and/or technical solutions in a global context, and interact with personnel from industry, laboratories, academic institutions and/or other services regarding system design, maintenance, and operation.
  - c. **CSR-3:** The ability to use techniques, skills, and modern engineering tools for engineering practice, including the ability to analyze and interpret data, and develop policy and procedures through the entire spectrum of operation for platform systems.
  - d. **CSR-4:** The ability to apply knowledge acquired in academic disciplines specifically to the design, procurement and maintenance of ships, boats and craft and associated combat systems, weapons systems, and sensors.
2. Applicable Officer Designator(s)  
Any
3. Applicable Subspecialty Coded Billet(s)  
10XX/111X/112X/113X/114X/115X/116X/117X/118X/119X/12XX/13XX/14XX/15XX/18XX
4. Educational and Significant Experience Criteria. Coded billets are authorized when the functions of the billet include the CSR competencies listed above (in paragraph 1). For additional clarification regarding definition of suffixes, refer to the NAVPERS 15839I, Vol 1.

a. Subspecialty Code Suffixes Authorized.

5000X Subspecialty Code Suffixes Authorized				
Billet	Officer	Suffix	Definition	Notes
	X	C	Proven Doctor of Philosophy	1a
X	X	D	Doctor of Philosophy	1
	X	F	Proven Master's Degree (non-thesis)	2a
	X	G	Master's Degree (non-thesis)	2
X		H	Master's Degree desired, not required	3
	X	I	Immediate Graduate Education Program (IGEP)	4
X	X	P	Master's Degree with Thesis	5
X	X	Q	Proven Master's Degree	5a

**Note 1:** D-coded billets are authorized when the billet's primary duties require the CSRs and a Doctorate Degree in engineering or hard science. D-coded officers are authorized when they complete a Doctorate Degree in engineering or hard science at an accredited institution.

**Note 1a:** A D-coded officer can be upgraded to a C-code when they have completed a tour in a doctorate degree coded billet.

**Note 2:** G-coded officers are authorized when an officer has completed a master's degree in engineering or hard science but has not completed a thesis. Master of Research or Master of Science by Research degrees in engineering or hard science will be assigned a G-code.

**Note 2a:** A G-coded officer can be upgraded to an F-code when they have completed a tour in a master's degree coded billet (or higher).

**Note 3:** H-coded billets are authorized when a billet requires expertise in Engineering and Technology where a master's level of knowledge is desirable but not essential for optimum performance.

**Note 4:** I-coded officers are authorized when an officer completes a Master's degree awarded through the Intermediate Graduate Education Program (IGEP) at an approved institution, and they do not fully meet P-code requirements. Officer will maintain I code even after tour in an S, R, P, Q, H coded billet.

**Note 5:** P-coded billets are authorized when the billet's primary duties require the CSRs and a Master's Degree in engineering or hard science. P-coded officers are authorized when the officer completes master's degree program in engineering or hard science, which includes completion of a thesis, at an accredited institution of higher learning.

**Note 5a:** Q-coded billets are authorized when the billet requires all the requirements of the P-code and previous experience in specific engineering systems, processes, design, acquisition,

management or leadership. Q-coded officers are authorized when they have a P-code and then complete at least 18 months in a master's degree coded billet (or higher). G-coded officers cannot obtain Q-codes. They will be authorized F-codes (see note 2).

5. Sponsor and Subject Matter Experts:

Major Area Sponsor: VADM James Downey, Commander, Naval Sea Systems Command

Subject Matter Expert: Mr. John Keegan, NAVSEA, john.j.keegan2.civ@us.navy.mil

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Subject Matter Expert

02 Feb 2026  
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Director, OPNAV N71

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