



JOINT EXECUTIVE  
SEM-PD21 2016-2018 CLASS (COHORT 721-171)

## Naval Postgraduate School



ANNOUNCEMENT FOR APPLICATIONS  
FOR SEPTEMBER 2016-2018 CLASS (COHORT 721-171)

### **Joint Executive Systems Engineering Management (SEM)**

**An Executive Graduate Education Program for Defense**

Offered in partnership with MIT's "Educational Consortium for  
Product Development Leadership in the 21<sup>st</sup> Century" (PD21)

A Distance Learning Program with Unique Joint Focus  
Joint Services, Joint Engineering & Management, Joint Government & Industry

#### **A LIMITED NUMBER OF OPEN SEATS AVAILABLE**

OPEN TO QUALIFIED UNIFORMED OFFICERS, SENIOR ENLISTED,  
FEDERAL CIVILIANS AND DEFENSE CONTRACTOR CIVILIANS.

#### **PROGRAM HIGHLIGHTS AND TESTIMONIALS**

The Joint Executive SEM-PD21 program certified by Secretary of the Navy to Congress  
allowing contractor civilian participation:

"Our progress in privatizing acquisition has resulted in the migration of many activities once performed by Navy uniformed or civilian personnel to the private sector. It makes sense for Navy personnel and defense industry civilians to participate shoulder to shoulder in graduate studies focusing on improving Navy research, development, and acquisition cost, schedule, and performance. Such a program will greatly enhance the educational experience of both sets of students and will strengthen partnerships between the private and public sectors which is a critical element in our efforts to transform the Navy and Marine Corps acquisition and procurement process." (Letter to Chairman, Committee on Armed Services, March 9, 2001)

Recognized in Business 2.0, (December, 2001) as one of the top, "Straight-to-the-Point  
Executive Education Courses."

Letter to the President of MIT by the Honorable Mr. Hultin, Undersecretary of the Navy,  
(May 17, 2000):

"SEM-PD21 is aligned with our efforts to transform the Navy and Marine Corps acquisition and procurement process. This initiative fits nicely with our broader campaign entitled Revolution in Business Affairs (RBA), a strategic change initiative aimed at dramatically improving the way we acquire, deliver, maintain, deploy and operate the business side of our national defense institution. We fully expect that the graduates of SEM-PD21 will soon become significant leaders and change agents in our Revolution in Business Affairs and help reduce the acquisition life cycles and development times for new defense systems by a factor of two or more."

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**SEM-PD21 2016-2018 CLASS (Cohort 721-171): September 12, 2016 - September 21, 2018**

**ENTRY REQUIREMENTS:** The program is open to uniformed officers (O3 and above), federal civilians (GS11 and above) and equivalent defense contractor civilians. Senior enlisted (E-7 and above) are eligible on a space available basis. To participate in the Joint Executive SEM-PD21 program, candidates must have the following credentials:

- An undergraduate degree in engineering or a related scientific or technical field with high academic achievement (2.6 GPA or higher); non-technical degrees considered with attainment of college level calculus. Probability & statistics desired but not required.
- At least five years experience directly related to product/systems development, systems engineering or systems acquisition. This experience must reflect continued growth and professional development. For candidates that hold a Master's degree, the experience requirement can be reduced to three years;
- Sponsored by your service, command or company with senior leadership endorsement.

**PROGRAM INFORMATION**

NPS and the PD21 consortium believe that this joint engineering & management degree is the best, unified curriculum available in systems engineering and end-to-end product development leadership education. It also ideally aligns with DoD leadership vision for defense transformation and acquisition excellence. All students who successfully complete the two-year distance-learning course of study will receive:

- ✓ **Degree:** Master of Science in Systems Engineering Management or Master of Science in Product Development.
- ✓ **PD21 Certificate:** Certificate of Recognition from MIT.
- ✓ **DAU Equivalencies:** Defense Acquisition University (DAU) ACQ101, ACQ201, PMT251, PMT257, SYS101, SYS202, SYS203 and SYS302 level III training for the Engineering (ENG) career field.

**ELECTIVE TRACKS:** Sponsors and students have great flexibility in designing their elective structure. Currently, there are six advertised elective tracks which, when taken with the SEM-PD21 core/fundamental courses, earn participating students additional certificates:

- ✓ **Advanced Systems Engineering**
- ✓ **Advanced Systems Architecting**
- ✓ **Human Systems Integration**
- ✓ **Space Systems**
- ✓ **System of Systems**
- ✓ **Systems Analysis**
- ✓ **Systems Acquisition (DAU PMT352 equivalent)**

**SCHEDULE**

- September 12 through 23, 2016: Program kick-off and orientation at Naval Postgraduate School, Monterey, California. Orientation includes program indoctrination, Silicon Valley Industry trip, start of first two core courses and participation in graduation events.
- After the kickoff, students return to their organization locations and take courses over the Internet synchronously using COLLABORATE, a web-conferencing academic tool and/or

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asynchronously using SAKAI, the NPS ONLINE course management system. Students should expect to take two four-unit courses and spend 7.5 hours a week in-class. SEM-PD21 core and fundamental courses are offered on Fridays and elective course day/time offerings will vary based on the track selected; see SEM-PD21 2016-2018 Class (Cohort 721-171) curriculum lineup for typical sequence of courses.

- Students are expected to attend the two-week program kickoff on campus, participate in two (2) one-week industry trips during the two-year course of study and one (1) one-week on campus graduation week at the completion of the program. Students are also required to participate in a quarterly Systems Engineering seminar that will host a thesis writing workshop and provide guest speaker lectures either live by Collaborate or recorded by video streaming. The lectures are also open to all participating student commands and companies.

### **TUITION**

For the 2016-2018 class there are 30 total seats available. Each service (Army, Air Force, Navy) and defense contractors are allocated a minimum of 5 seats. Additional seats are available to service sponsors or the best qualified candidates from any DoD or federal agency. Tuition must be collected before commencement of each class (see tuition letter for due dates and additional details). *(Note: Qualified active duty Navy and Marine Corps officers may be eligible for NPS mission funding but the student or their command will be responsible to purchase books and pay for all travel expenses).*

**Note:** The total ownership price per seat is \$50,000 for military and federal government civilian employees and \$54,000 for Defense contractor civilian employees, payable according to the payment schedule provided below and in the SEM-PD21 tuition letter (or as negotiated with the joint executive SEM-PD21 program office). Price discounts are offered to a command or company sponsoring multiple students (see discount pricing). This total ownership price includes all tuition, textbooks, course support materials and equipment (software, handouts, case studies, etc.), travel, transportation and per diem for all campus/industry visits including graduation and a PC camera and microphone headset. Students must have high-speed Internet access to participate in COLLABORATE and SAKAI course offerings.

<b><u>Payment Schedule:</u></b>	Government Officer/Fed Civilian	Defense Contractor Civilian	Due Date
Registration and kickoff:	\$6K	\$6K	15 Jul 16
First year tuition/industry trips:	\$22K	\$24K	01 Oct 16
Second year tuition/graduation:	\$22K	\$24K	01 Oct 17

**Discount pricing for multiple sponsored students:** An incremental price discount (5% for 2; 10% for 3; 15% for 4; and 20% for 5 or more students) will be applied to the total tuition price for Service sponsors or organizations that sponsor two or more students. An updated payment schedule will be provided to each sponsoring command/company after its total number of students are selected and accepted into the program.

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**APPLICATION DEADLINES**

**June 15, 2016:** all candidates ensure that they have completed the NPS admissions online application (contact your local representative for any additional internal deadlines).

Apply at [http://my.nps.edu/web/dl/degProgs\\_PD21](http://my.nps.edu/web/dl/degProgs_PD21) by selecting “Apply Now” under the Quick Links section of the program website. Once at the NPS online application, candidates should fill out all requested information, select New Applicant for distance learning, 721 Curriculum- Joint Executive SEM-PD21 program commencing Academic Year 2017, Quarter 1.

Applicants must ensure all official transcripts are ordered and sent directly to the NPS admissions office and submit a participation agreement (PA) signed by an appropriate organization representative.

Sponsoring commands/organizations/companies must also have a formal agreement in place with NPS (MOA for Navy commands and DD1144 for non-Navy organizations). Check with program director if unsure of existing agreements or to initiate an agreement.

Late applications will be reviewed on a case-by-case basis dependent upon seat availability but no later than August 15, 2016.

Maximum enrollment is 30 students with a target allocation for 25 military officer/federal government civilians and 5 Defense contractor civilians. *(Note: Qualified active duty Navy and Marine Corps officers may be eligible for NPS mission funding but the student or their command will be responsible to purchase books and pay for all travel).*

**FOR MORE INFORMATION AND APPLICATION PROCEDURES**

Visit [http://my.nps.edu/web/dl/degProgs\\_PD21](http://my.nps.edu/web/dl/degProgs_PD21) and/or contact either of us below:

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