Systems Engineering is an interdisciplinary field of engineering that focuses on how to design and manage complex engineering systems. System Engineers are typically responsible for ensuring system requirements are met and reliable. They also deal with work-processes, optimization methods, and risk management tools during projects. Their job usually overlaps technical expertise with human-centered disciplines such as control engineering, industrial engineering, software engineering, organizational studies, and project management. Systems Engineers ensure that all aspects of a project or system are considered and integrated efficiently into a system as a whole.

**Key Skills & Sample Jobs**

- Design new production processes in order to reduce the use of materials, time, or labor
- Identify strengths and weaknesses of alternative solutions
- Listen carefully to feedback from customers, vendors, and production staff
- Manage several issues at once, from workers’ safety to quality assurance

**Sample Job Titles:** Industrial Engineer, Operations Engineer, Process Engineer, Production Engineer, Supply Chain Engineer, Human Factors Engineer

**2018 Career Outcomes**

- 92% of SEAS students were satisfied with the career programs and services
- 71% of systems engineering seniors were employed or enrolled in graduate school within 6 months
- $68,000 median salary for systems engineering undergraduates
- 43% of systems engineering graduate students earned a salary of $100,00 or more

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**Engineering Management & Systems Engineering Department**

- 12 full-time faculty
- $1.1 million annual research expenditures
- One of the largest engineering management and systems engineering programs in the U.S.

**Department Enrollment**

- 94 undergraduate
- 402 graduate

**Research Areas**

- Engineering and Technology Management
- Systems Engineering
- Environmental and Energy Management
- Information Assurance
- Crisis, Emergency and Risk Management
- Operations Research
- Economics, Finance and Cost Engineering
- Knowledge and Information Management

**Employers Who Have Hired GW Students**

- Huntington Ingalls Industries
- Leidos
- Northrup Grumman
- Pacific Gas & Electric
- Pricewaterhouse Coopers
- U.S. Patent & Trademark Office

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**W. Scott Amey Career Services Center**

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