

Funded PhD Positions in Engineering Management &  
Systems Engineering  
Old Dominion University

Direct Link: <https://www.AcademicKeys.com/r?job=249418>

Downloaded On: Nov. 22, 2024 7:55pm

Posted Nov. 22, 2024, set to expire Mar. 23, 2025

<b>Job Title</b>	Funded PhD Positions in Engineering Management & Systems Engineering
<b>Department</b>	Engineering Management & Systems Engineering <a href="https://odu.edu/emse">https://odu.edu/emse</a>
<b>Institution</b>	Old Dominion University Norfolk, Virginia
<b>Date Posted</b>	Nov. 22, 2024
<b>Application Deadline</b>	Open until filled
<b>Position Start Date</b>	Available Immediately
<b>Job Categories</b>	Graduate Student
<b>Academic Field(s)</b>	Water Resources Engineering Transportation Engineering Sustainable Engineering Risk Management & Financial Engineering Ocean Engineering Naval Architecture & Marine Engineering Mechanical Engineering Manufacturing & Quality Engineering Industrial & Systems Engineering Human Factors Engineering/Ergonomics Ecological and Environmental Energy Technology Electrical and/or Electronics Computer Engineering Computer Science Construction Engineering/Management Civil Engineering Aerospace/Aeronautical/Astronautics

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Engineering - Other

**Job Website** <https://fs.wp.odu.edu/a1valenc/openings/>

**Apply By Email** [a1valenc@odu.edu](mailto:a1valenc@odu.edu)

**Job Description**

At Old Dominion University's Engineering Management & Systems Engineering (EMSE), we are hiring two PhD students to start in January 2025 or shortly afterward. Interested applicants, please email Dr. Ambrosio Valencia-Romero ([a1valenc@odu.edu](mailto:a1valenc@odu.edu)) with your CV and specify which of the following areas you are most interested in:

- 1. Modeling, simulation, and augmentation of collective systems:** This research analyzes engineering systems with federated features to identify the underlying hindrances impacting their operation and how to tackle them for them to accomplish their missions with minimal technical, environmental, and social costs. Great incoming Ph.D. students would bring computational modeling, operations engineering, and systems-of-systems thinking expertise.
- 2. Assessment and mitigation of strategic risk in engineering systems:** This research explores how risk compounds across inter-technical, inter-operational, and inter-organizational layers of the engineering systems design process, how it evolves within a changing societal and environment context, and how to communicate it in ways that prompt key actors to decide on the best control measures. Great incoming Ph.D. students would bring risk analysis, engineering economics, engineering statistics, and probabilistic design experience.
- 3. Implementation theory in engineering systems design:** This research focuses on designing and testing mechanisms that help mitigate the emergence of unfavorable dynamics across multiple levels and stages of the engineering systems design process. Great incoming Ph.D. students would bring collaborative design, decision theory, and human subject research expertise.

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Applicants with bachelor's and master's degrees in engineering (particularly in engineering management, systems engineering, or adjacent, e.g., industrial engineering, mechanical, electrical engineering, engineering design, civil engineering, environmental engineering, computer science, software engineering) or those in the process of completing one are preferred. More information about the EMSE Ph.D. program and the general requirements for applying to ODU graduate programs are available via the following four links:

- <https://www.odu.edu/academics/programs/doctoral/engineering-management>
- <https://catalog.odu.edu/graduate/engineering-technology/engineering-management-systems/engineering-management-systems-phd/>
- <https://www.odu.edu/admission/graduate/answers>
- <https://www.odu.edu/admissions/proficiency>

Visit <https://amvro.co/odu> and <https://odu.edu/emse> to learn more about Dr. Valencia-Romero and the EMSE Department.

### EEO/AA Policy

*It is the policy of Old Dominion University to provide equal employment, educational and social opportunities for all persons, without regard to race (or traits historically associated with race including hair texture, hair type, and protective hairstyles such as braids, locks, and twists), color, religion, sex or gender (including pregnancy, childbirth, or related medical conditions), national origin, gender identity or expression, age, veteran status, disability, political affiliation, sexual orientation or genetic information. Individuals from minoritized communities, women, and individuals with disabilities are encouraged to apply.*

### Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

**Contact** Dr. Ambrosio Valencia-Romero  
Engineering Management & Systems Engineering  
(EMSE) Department

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