

# Doctor of Engineering in Systems Engineering



## A program designed for engineering professionals

Developed with practicing engineers in mind, CSU's Doctor of Engineering in Systems Engineering program provides advanced training and in-depth knowledge that can be used to solve complex, real-world problems. As a participant in this program, you will study both the theoretical framework of systems engineering and the technical applications needed to organize, manage, and implement projects in a range of industry settings. Interdisciplinary skills and the applied aspects of systems engineering are fundamental elements of this program's core curriculum.

Ideal candidates for this systems engineering degree have considerable industry experience in addition to support from their current employer or organization. After being accepted, doctoral candidates in this program are assigned an advisory committee, which will include a faculty member with industry experience.

## How does the Doctor of Engineering program differ from a Ph.D.?

While CSU's Ph.D. in Systems Engineering is primarily focused on systems engineering theory and scholarship (an excellent path for anyone interested in teaching), this professional doctorate program is centered on the practice and application of systems engineering principles. After being equipped with a greater depth of knowledge, graduates of this program will be prepared to seek advancement opportunities and take on leadership roles in their industry of choice.

## Learn from leaders in engineering scholarship and research

By participating in this program, you will have the opportunity to study under faculty with decades of experience in applying engineering research to real-world challenges. Because CSU faculty often incorporate their own scholarship and work into the curriculum, you will also have access to some of the groundbreaking research currently taking place at the College of Engineering.

## Delivery

Online

## Credits

72 credits

## Tuition

\$1085 per credit

- Includes [Student Services](#)
- [Fees](#) assessed separately
- [Financial aid](#) is available; eligibility determined on an individual basis

## Time frame

Varies based on intensity of study and previous coursework

## Completion requirements

- A minimum of 72 credits
- Students with an applicable master's degree earned with at least 30 credits
  - 24 course credits required
  - Practicum (9 cr.)
  - Dissertation (9 cr.)
- Students without an applicable master's degree:
  - 54 course credits required
  - Practicum (9 cr.)
  - Dissertation (9 cr.)

## More info

[online.colostate.edu/degrees/systems-engineering-doctorate](https://online.colostate.edu/degrees/systems-engineering-doctorate)

## Contact

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# How to Apply

## Doctor of Engineering in Systems Engineering



Before applying to this program, it is strongly recommended that you contact the [Systems Engineering Department](#) to understand all requirements.

### Application Deadlines

Fall Semester: **July 1**

Spring Semester: **November 1**

#### 1 Review Admission Requirements

Download the complete [Systems Engineering Application Information Packet](#) prior to starting the application process. This packet provides detailed information regarding CSU's Systems Engineering graduate programs, minimum application qualifications, criteria for admission, and more.

- B.S. degree from a regionally accredited institution in engineering, mathematics, or a technical discipline with a GPA of 3.0 or greater\*
- Basic Statistics
- Calculus I
- Minimum of 5-8 years of professional experience as, "Systems Engineer," "Engineer," "Scientist," or equivalent
- Sponsor within current company or practicum site who will collaborate with CSU during the practicum (one letter of recommendation must be from this person)\*\*
- GRE test scores or waiver. Applicants who have earned a degree from a US institution qualify for a GRE score waiver. Please [contact the department](#) for waiver after your application is submitted and complete.

\*If your B.S. is not in engineering, an M.E. or M.S. in engineering is strongly recommended.

\*\*For more information about sponsorship, view the [Industry/Organization Practicum Support Guidelines](#).

#### 2 Prepare Application Materials

- **Current resume** clearly demonstrating at least the following required professional experience as 'Systems Engineer,' 'Engineer,' 'Scientist,' or equivalent:
  - » At least 8 years relevant work experience for those applying to the 72-credit program (no applicable master's).
  - » At least 5 years relevant work experience for those applying to the 42-credit program (student already has applicable master's).
- **Statement of purpose**  
(2 pages MAXIMUM) This is meant to address the Systems Engineering Admissions Committee and why you would be a good fit for the program. This is different from the Research Interest Summary you will compile, but some of the same information may be used. Topics may include, but are not limited to:
  - » Your relevant professional/academic background and skills
  - » Why you are interested in Systems Engineering — provide specific areas of interest and application
  - » Why you are interested in CSU's program and what you can contribute to CSU
- **One letter of recommendation** from a sponsor within your current company or practicum site. This sponsor is expected to help coordinate with CSU during your practicum and serve on your advisory committee. The letter should state both this individual's personal recommendation and anticipated support for the student during the program. Your practicum sponsor must submit a current resume along with their recommendation so minimum sponsor requirements can be verified.
- **Two additional letters of recommendation** from faculty, supervisors, etc. who can speak to your relevant skills accurately and in detail.

### 3 Complete Online Application

Complete the [online graduate application](#) and pay the nonrefundable application processing fee (payable online). As soon as you have completed the required information, please submit your application. Your application will not be reviewed until it is complete and all required materials have been received.

- Select “Systems Engineering (D.E)- Distance” when choosing the program of study

### 4 Request Transcripts

Request one official transcript of all collegiate work completed from every institution attended, whether or not you received a degree from those institutions. Transcripts from Colorado State University are not required. Official transcripts can either be mailed in or sent as e-transcripts.

**Send e-transcripts to:** [gradadmissions@colostate.edu](mailto:gradadmissions@colostate.edu)

**Send paper copies to:**

Graduate Admissions  
Colorado State University – Office of Admissions  
1062 Campus Delivery  
Fort Collins, CO 80523-1062

### Check Your Application Status

View your [application status](#) at any time to ensure your application checklist is complete or to check on updates. Once your complete application, including supporting materials, is received, the department admission committee will review your application and promptly notify you of their decision.

### International Students

See [website](#) for test score and transcript requirements.