

Adjunct Instructor

Colorado School of Mines invites applications for a part-time position as a Project Advisor in the College of Engineering & Computational Sciences (CECS) Capstone Design Program to provide project oversight to student teams in Senior Design.

The College of Engineering & Computational Sciences Senior Design Course is a creative multidisciplinary design experience emerging from combined efforts in civil, electrical, environmental, and mechanical engineering degree programs. Within the engineering community, it is widely believed that many of the challenges which are facing practicing engineers can best be met by exploiting multidisciplinary approaches. This program in Senior Engineering Design has been established to demonstrate the value and ingenuity which can be derived from cooperative design efforts among traditional engineering disciplines. For more information on the Senior Design course please see the course website: <http://capstone.mines.edu/>

Responsibilities: Senior Design is held Tuesdays and Thursdays from 8am to 11am. Lectures are developed and delivered by the course faculty on designated days and the remaining time is used for you (as a Project Advisor) to meet with, evaluate, and assist student teams.

As a fully-loaded Project Advisor (PA) you will be responsible for the following:

- Meeting with 4-5 assigned student teams at least once a week (typically a minimum of 30 minutes with each team weekly), and usually in the 8am to 11am T/Th timeslot
- Attending bi-weekly PA meetings which are typically held on Thursdays at 11am
- Attending the Trade Fair event which is held once per semester before graduation
- Occasional delivery of instruction material, and sharing of firsthand experiences, with your design teams in support of the lecture's topical material
- Grading all deliverables produced by your teams. Rubrics are provided to assist with grading and some class time can be devoted to grading.
- On rare occasion, you may be asked to cross-grade another PA's team in an effort to level expectations across project teams

As Project Advisor, you are not expected to be a technical advisor to your design teams. This position is analogous to a Project Manager position in industry, except in this case you are not managing the project. Instead, you will guide student teams in how to manage and execute a successful project – allowing them to explore design options and steering them back on track if they lose sight of the design objectives, helping with an understanding of professional communications, and helping them establish clear project deliverables through interactions with their client. The projects you advise can be quite varied in scope.

Qualifications: Candidates must hold an undergraduate degree in Civil, Electrical, Environmental, or Mechanical Engineering, or closely related discipline AND either:

- 1) professional experience in engineering design (8+ years), or
- 2) a graduate-level degree in engineering or related field, with some level of professional design experience (5+ years)

Candidates with an active PE license and/or with demonstrated teaching experience at the undergraduate level are given preference. Compensation: \$5,600 per semester (higher with a PhD degree) for a fully-loaded contingent of project teams and expected commitment of two semesters.

How to Apply: Applicants must send a letter of interest and resume to: jpersich@mines.edu

Mines is an EEO/AA employer and is committed to enhancing the diversity of its campus community. Women, minorities, veterans, and individuals with disabilities are encouraged to apply. Employment with Mines is contingent upon the satisfactory completion of a background investigation.