

# DEPARTMENT OF NUCLEAR ENGINEERING AND INDUSTRIAL MANAGEMENT

## Engineering Management Program

**Erik R. Coats, Director, Engineering Management** (ecoats@uidaho.edu); **Denise Engebrecht, Program Manager** (208-364-6123 denisee@uidaho.edu); [www.uidaho.edu/engr/em](http://www.uidaho.edu/engr/em)

This program is certified by the American Society for Engineering Management (<https://asem.org/>)

The Engineering Management Program at University of Idaho is designed for engineering professionals moving into technical management roles. The Program is multidisciplinary, supported by faculty in the colleges of engineering, business, and science. Students will explore the analytical, technical, and human resource aspects of managing in a technical environment. Students will have the opportunity to expand their knowledge in their chosen field of expertise. Since the vast majority of engineers assume management roles sometime during their career, this degree program is typically pursued on a part-time basis by working engineers. Classes are offered by resident and adjunct faculty in Idaho Falls, Boise, and Moscow. All courses required for the program are available for distance learners through the College of Engineering's Engineering Outreach Program [eo.uidaho.edu/](http://eo.uidaho.edu/) (<https://www.eo.uidaho.edu/>).

The College of Engineering offers an M.Engr. (non-thesis) degree in Engineering Management. Admission to the program is based on: ability to complete graduate-level work evidenced by undergraduate transcripts; a B.S. in Engineering from an ABET/EAC accredited program, TOEFL score higher than 550 for International students, at least 2 years of engineering work experience beyond B.S. degree or currently employed as an engineer, and three letters of recommendation. One of the three letters of recommendation must be from a current or former employer. Students must also meet College of Graduate Studies minimum requirements for admission.

## Industrial Technology Program

**Michael McKellar, Director, Industrial Technology** (mmckellar@uidaho.edu); **Debbie Caudle, Student Services Coordinator** (debrac@uidaho.edu); [www.uidaho.edu/engr/programs/industrial-technology/bs](http://www.uidaho.edu/engr/programs/industrial-technology/bs) (<http://www.uidaho.edu/engr/programs/industrial-technology/bs/>)

This program is accredited by the Association of Technology, Management and Applied Engineering ([www.atmae.org](http://www.atmae.org)).

The Industrial Technology Bachelor of Science degree program is designed to provide students with the opportunity to develop in-depth knowledge and hands-on experience in basic and advanced industrial processes, procedures, planning, and management.

## Nuclear Engineering Program

**Richard Christensen, Director** (rchristensen@uidaho.edu); **Alice Allen, Director for Recruitment and Student Engagement** (alicew@uidaho.edu); [www.uidaho.edu/idahofalls/nuclearengineering](http://www.uidaho.edu/idahofalls/nuclearengineering)

The world's growing need for energy requires a diversity of energy sources, including nuclear energy. Approximately 20% of the electricity used in the U.S. stems from nuclear power. As power plants continue to age there is a need to develop next-generation nuclear reactors and to educate future generations of nuclear scientists and engineers. The demand for nuclear engineers is projected to significantly outpace supply during the next decade.

The minimum requirements to enter any of the graduate programs in nuclear engineering are: an undergraduate degree in engineering or closely related field from an ABET accredited U.S. program, does not include technical degrees; and a cumulative GPA of 3.0 or better on a 4.0 scale. GRE General Exam is recommended but not required for students with an undergraduate degree from a U.S. ABET accredited program. Some applicants who have a baccalaureate degree in a field other than engineering may be required to complete certain undergraduate deficiency courses before they will be allowed to take graduate level courses. Students must also meet College of Graduate Studies minimum requirements for admission. This program is available at the Idaho Falls campus only.

## Technology Management Program

**Lee Ostrom, Center Executive Officer** (ostrom@uidaho.edu); **Alice Allen, Director for Recruitment and Student Engagement** (alicew@uidaho.edu); **Denise Engebrecht, Program Manager** (denisee@uidaho.edu); [www.uidaho.edu/engr/programs/technology-management](http://www.uidaho.edu/engr/programs/technology-management)

Technology Management is a multidisciplinary field that prepares technical professionals to provide effective planning, selection, implementation and management of technology to solve today's complex and challenging problems. This program bridges the gap between technology and business by equipping technologists with the expertise and leadership skills needed to advance their career in today's fast-paced world. Students will expand their breadth of knowledge beyond a specific technical field into management and business. Business knowledge, organization insights and communication skills will be integrated with technical knowledge to develop proficient technical managers and leaders of projects, operations, organizations and people.

Classes are offered by resident and adjunct faculty in Idaho Falls, Boise and Moscow. Courses for the program are available at the centers and through distance education (online). Thesis and non-thesis options are available.

Students must have an accredited bachelor's degree in a technical field or an accredited bachelor's degree and a minimum of three years' work experience in a technical field. One of the letters of recommendation must be from a current or former employer. Students must also meet College of Graduate Studies minimum requirements for admission.

## Majors

- Industrial Technology (B.S.Tech.) (<https://catalog.uidaho.edu/colleges-related-units/engineering/nuclear-engineering-and-industrial-technology/industrial-technology-bstech/>)

## Certificates

- Fire Safety Undergraduate Academic Certificate (<https://catalog.uidaho.edu/colleges-related-units/engineering/nuclear-engineering-and-industrial-technology/fire-safety-undergraduate-academic-certificate/>)

- Human Safety Performance Undergraduate Academic Certificate (<https://catalog.uidaho.edu/colleges-related-units/engineering/nuclear-engineering-and-industrial-technology/human-safety-performance-undergraduate-academic-certificate/>)

## Nuclear Engineering and Industrial Technology Graduate Program

- Engineering Management (M.Engr.) (<https://catalog.uidaho.edu/colleges-related-units/engineering/nuclear-engineering-and-industrial-technology/engineering-management-mengr/>)
- Nuclear Engineering (M.Engr.) (<https://catalog.uidaho.edu/colleges-related-units/engineering/nuclear-engineering-and-industrial-technology/nuclear-engineering-mengr/>)
- Nuclear Engineering (M.S.) (<https://catalog.uidaho.edu/colleges-related-units/engineering/nuclear-engineering-and-industrial-technology/nuclear-engineering-ms/>)
- Nuclear Engineering (Ph.D.) (<https://catalog.uidaho.edu/colleges-related-units/engineering/nuclear-engineering-and-industrial-technology/nuclear-engineering-phd/>)
- Technology Management (M.S.) (<https://catalog.uidaho.edu/colleges-related-units/engineering/nuclear-engineering-and-industrial-technology/technology-management-ms/>)

## Certificates

- Critical Infrastructure Resilience Graduate Academic Certificate (<https://catalog.uidaho.edu/colleges-related-units/engineering/nuclear-engineering-and-industrial-technology/critical-infrastructure-resilience-graduate-certificate/>)
- Emergency Planning and Management Graduate Academic Certificate (<https://catalog.uidaho.edu/colleges-related-units/engineering/nuclear-engineering-and-industrial-technology/emergency-planning-management-graduate-academic-certificate/>)
- Nuclear Criticality Safety Graduate Academic Certificate (<https://catalog.uidaho.edu/colleges-related-units/engineering/nuclear-engineering-and-industrial-technology/nuclear-criticality-safety-graduate-academic-certificate/>)
- Nuclear Decommissioning and Used Fuel Management Graduate Academic Certificate (<https://catalog.uidaho.edu/colleges-related-units/engineering/nuclear-engineering-and-industrial-technology/nuclear-decommissioning-and-used-fuel-management-academic-certificate/>)
- Nuclear Technology Management Graduate Academic Certificate (<https://catalog.uidaho.edu/colleges-related-units/engineering/nuclear-engineering-and-industrial-technology/nuclear-technical-management-graduate-academic-certificate/>)