

# WHY UW?

- Continuing UW engineering students and high school seniors are offered more than **275 merit-based scholarships** each year.
- Approximately **90%** of CEAS courses are taught by tenured faculty, with graduate students assisting in the labs.
- The small size of the college, a **student-faculty ratio of 20:1**, and an **average class size of 25** provides great hands-on learning and the opportunity to participate in undergraduate research.
- Fall and spring career fairs are attended by **50-60 local, regional and national employers/organizations** hiring UW engineering students for internships and positions upon graduation. Students who graduate report a **75% rate of employment in their chosen field within three months of graduation** and **90% within six months**.
- UW College of Engineering and Applied Science (CEAS) seniors consistently pass the Fundamentals of Engineering Exam with scores **5-12% above the national average**.
- Three UW residence hall floors with a **computing laboratory** house approximately 150 students and are designated for engineering students only.
- With **more than 250 recognized student organizations**, UW offers a wide range of opportunities to fit your interests and needs. Engineering students can choose to become involved in AIChE (American Institute of Chemical Engineers), TBP (Tau Beta Pi), SWE (Society of Women Engineers) and many more.
- The International Engineering Club, along with Engineers without Borders-Wyoming, was formed to facilitate students interested in **study abroad, international internships or international service**.

**GO FOR GOLD**

## Contact Information

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## Chemical Engineering Faculty

**Vladimir Alvarado - Department Head**  
Ph.D., University of Minnesota, 1996

**Saman Aryana**  
Ph.D., Stanford University, 2012

**David M. Bagley**  
Ph.D., Cornell University, 1993

**David A. Bell**  
Ph.D., Colorado State University, 1992

**Joseph Holles**  
Ph.D., University of Virginia, 2000

**Patrick Johnson**  
Ph.D., Columbia University, 2005

**Dongmei (Katie) Li**  
Ph.D., University of Colorado at Boulder, 2003

**John Oakey**  
Ph.D., Colorado School of Mines, 2003

**Karen Wawrousek**  
Ph.D., California Institute of Technology, 2009



COLLEGE OF  
**ENGINEERING &  
APPLIED SCIENCE**

UNIVERSITY  
OF WYOMING



**CHEMICAL  
ENGINEERING**

**Chemical Engineering** is an exciting and demanding field that provides excellent career opportunities in the U.S. and around the world. At UW Chemical Engineering, we strive to prepare students to be leaders in industry, government or academia. Those alumni with the advanced education and research skills associated with obtaining graduate degrees have additional flexibility, breadth and depth to become leaders as the problems of tomorrow arise.

Our faculty are award-winning, world-class researchers and teachers with a variety of research foci. The department occupies a major share of the modern 130,000-square-foot engineering addition, including six undergraduate laboratories and 20 research laboratories as well as machine, wood and instrument shops.

» Find out more at [uwyo.edu/chemical](http://uwyo.edu/chemical)

## Chemical Engineering

Chemical engineering turns raw materials, such as crude oil, biological materials, metals and waste materials, into usable products such as gasoline, foods and medications. Chemical engineers apply the principles of chemistry, biology, physics and math to solve problems that involve the production or use of chemicals, fuel, drugs, food and many other products.

 Notable employers include Pfizer, Johnson & Johnson and DuPont.

## Careers in Chemical Engineering

Careers in the energy, food, water, manufacturing, healthcare and pharmaceutical industries are typical. Professionals work on creating and refining polymers in manufacturing and medicine. They design processes and equipment for large-scale safe and sustainable manufacturing, plan and test methods of manufacturing products and treating byproducts and supervise production.

 The average annual salary for chemical engineers was \$103,590 in 2014.

## Degree Programs

- **Bachelor of Science in Chemical Engineering**
- **Master of Science in Chemical Engineering**
- **Joint MS/MBA in Chemical Engineering**
- **BS/MS Quickstart in Chemical Engineering**
- **Doctor of Philosophy in Chemical Engineering**



Chemical engineering students can research biomaterials, including cell types that regenerate structural tissues like cartilage and bone.

