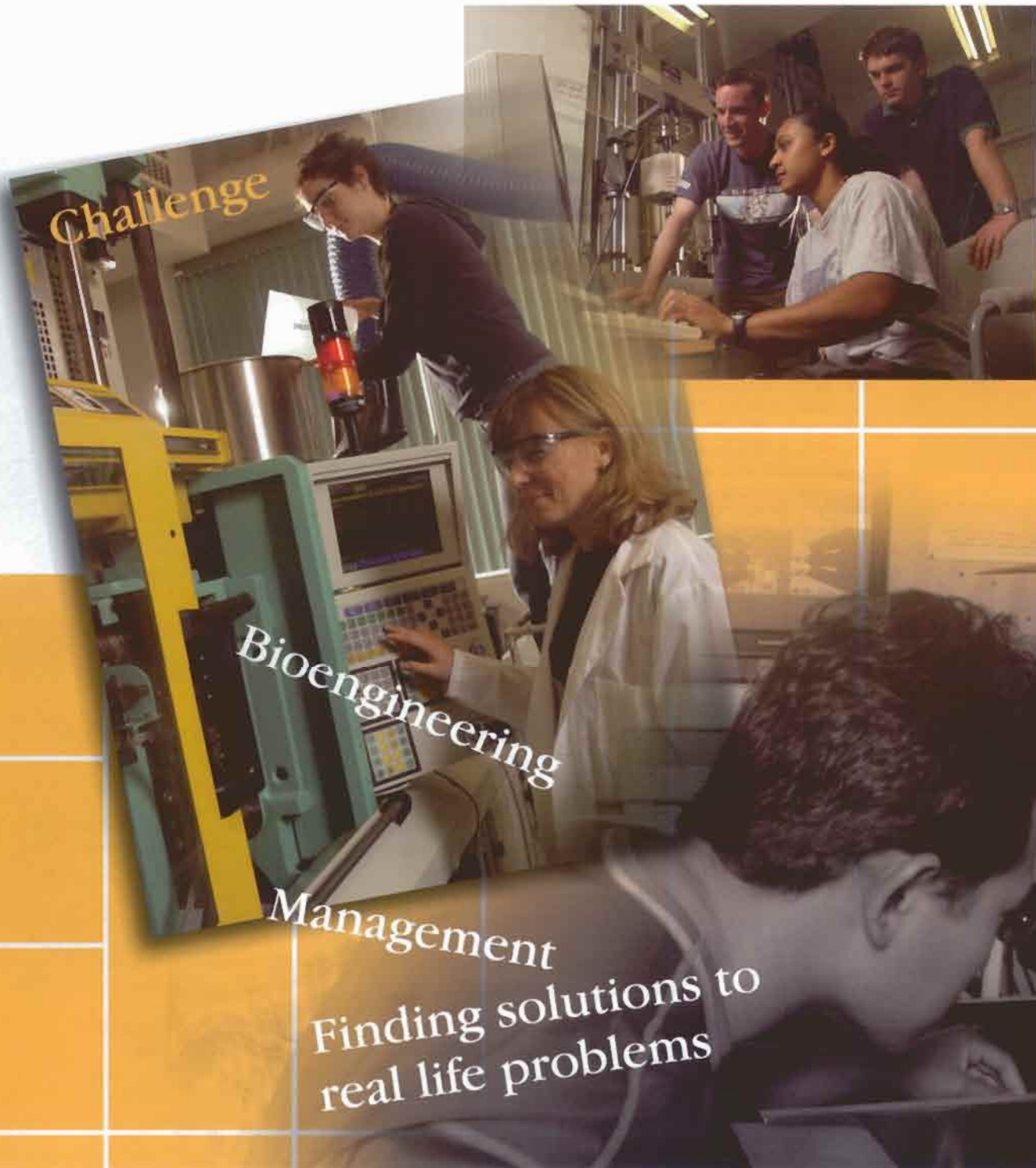


# Chemical Engineering



Challenge

Bioengineering

Management

Finding solutions to  
real life problems

## Co-op



Co-op opportunities with industry provide students help with future career choices. Technical electives allow you to focus your studies towards a position in a specific area. Regardless of the technical electives that you select, you will still have a strong chemical engineering background that will prepare you for a position in a broad range of industries. The University Research Opportunities Program (UROP) provides summer research work for students in Level 1 and 2.

**Chemical Engineering** is the most broadly based of engineering disciplines. Chemical engineers use the basic principles of chemistry, mathematics, physics, biology, economics and computer technology to design, operate and trouble shoot processes that are used to manufacture the materials that are the building blocks of almost everything around us.

Find out more go to:  
<http://www.chemeng.mcmaster.ca>

## Problem Solving

## Finance



**Christine Hykamp**, B.Eng. McMaster University 1993; M.Sc.Eng. Queen's University, 1996, P.Eng.  
Senior Manager: R&D Tax Services, Deloitte & Touche LLP

"As an engineer you seldom work alone, the McMaster Chemical engineering experience gave me the opportunity to learn, work and interact in a team environment. This has been one of the most valuable skills as I've transitioned from a product and process engineer, to a design engineer, to an engineering manager and now a research and development consultant. You can be certain that a Chemical Engineering degree from McMaster will give you the engineering knowledge and skill set you need to launch your career in whatever *direction you desire!*"



## Teamwork



**Chemical Engineering and Bioengineering** is a unique five-year programme offered in the Department of Chemical Engineering, leading to the degree Bachelor of Engineering and Biosciences.

Find out more go to:  
<http://www.chemeng.mcmaster.ca>

Students in chemical engineering programs take courses in thermodynamics, heat transfer, mass transfer, fluid mechanics, reaction kinetics, reactor design, and problem solving. Many of these courses are supplemented by laboratories.

This allows students in the final year of the programs to take specialized elective courses in the various areas of research of our professors including courses in polymers, nanotechnology, biomedical engineering, and process control.

Students in the Chemical Engineering program, along with developing a strong foundation in the basic sciences, will have the unique opportunity to participate in courses aimed at developing problem solving, team, self assessment and lifelong learning skills.





**Kirk Bailey** - B.Eng. 1987, M.Eng. 1991  
Vice President, Strategic Planning and Development, Suncor

"A Chemical Engineering degree from McMaster provides you with a solid foundation for future success. Technology and business practices will continue to change rapidly in the future, and McMaster's focus on problem solving, teamwork and communications skills will help prepare you to meet the challenges ahead."

## Energy

**Chemical engineers** use their expertise to develop what seems like an infinite supply of products and materials.

Find out more go to:  
<http://www.chemeng.mcmaster.ca>

**Milica Radisic** - B.Eng. McMaster University, 1999; Ph.D. Massachusetts Institute of Technology, 2004  
Assistant Professor, Institute of Biomaterials and Biomedical Engineering, Department of Chemical Engineering and Applied Chemistry, University of Toronto

"My undergraduate experience at the Department of Chemical Engineering at McMaster University was very positive. The courses were thought by excellent faculty and I felt I was very well prepared for a rigorous program of study at MIT. What was great and unique about McMaster is that teamwork was encouraged in all aspects. Students were encouraged to work together and as a result my classmates became some of my best friends."



## Manufacturing



**Karinne Chan**, B.Eng. (Chem. Eng. & Society, minor in French), 2001.  
Regulatory Affairs Manager, Procter & Gamble

"The technical skills gained through the chemical engineering program made me marketable for some fantastic summer jobs. As a student, I worked for companies such as Xerox, the National Research Council of Canada, and Procter & Gamble. Each job required me to lead a number of research or technical projects and gave me invaluable work experience that eventually led to numerous job offers upon graduation. The society portion of my degree gave me the flexibility to take non-engineering courses to complement the technical portion of my chemical engineering degree. Together, these courses made me a well-rounded engineer with both the technical and soft skills that an employer looks for."

## Research

Students graduating from our five-year **Chemical Engineering and Management** program combine the full engineering degree with the core requirements of a Commerce degree.

Find out more go to:  
<http://www.chemeng.mcmaster.ca>

Students graduating from our five-year **Chemical Engineering and Society** program, will receive a traditional education in the field of Chemical Engineering, as well as learning about the complex interactions that exist between technology and society.

Find out more go to:  
<http://www.chemeng.mcmaster.ca>

## Business

**Terry McGowan**, - B. Eng., 1986  
President & CEO, Bartek Ingredients Inc.

"McMaster was a great place to meet people and get an education. The people that you meet become your life long friends and colleagues and the education that you receive at McMaster is the best. If you look at the education behind many of the people that lead their companies, you will find an engineer and most often a chemical engineer. The training is broad and provides an excellent foundation for a successful career in whatever you may want to do."



[www.chemeng.mcmaster.ca](http://www.chemeng.mcmaster.ca)

## Our Faculty And Staff

Students will have the opportunity to interact with professors who are dedicated and accomplished teachers, have won local and national teaching awards and are at the cutting edge of their respective research fields. We offer a friendly and supportive environment where people know your name.

## Our Facilities

We have state of the art, newly updated laboratory facilities that include a growing number of laboratories in the bioengineering field. Our students have access to a department computer facility and training on the programs that are the current industry standard.



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