Janaka Ruwanpura, Ph.D., P.Eng., PQS
Director, Canada Research Chair and Professor
Centre for Project Management Excellence

Full-Time Faculty Members and 17 Associate Faculty from Other Engineering Depts.

24 Ph.D. and 13 M.Sc. Students

136 M.Eng. Students

Strong Industry Support

PMC (Project Management Certification)

Offer Programs in Middle East, Asia and Europe

Very Strong PM Advisory Council

Supported by Engineering and Business Schools

Canada’s Leader in Project Management Training and Research

The Centre for Project Management Excellence (CPME) at the University of Calgary is jointly sponsored by the Schulich School of Engineering and the Haskayne School of Business; it is the only program of its kind in Canada to have expertise in both engineering and business.

The specialization offers MEng, MSc, and PhD degrees, a graduate diploma program and the opportunity for professional certification, and conducts research projects with the support of various industries.

The program serves as a centre for collaborative project management research in partnership with key industry and government stakeholders and supports a current graduate enrolment of 80 students, the Canada Research Chair in Project Management Systems, and an endowed Chair in Project Management.

The program was recognized for its Distinguished Contribution as an Organization by the Project Management Institute’s Southern Alberta Chapter in 2007.
How to improve industry participation in a graduate program?

- Industry Interaction in teaching
- Industry interaction in research
- Industry placements and internships
Pre-Requisite

- Develop a strong industry advisory council
- Create sub-committees to assist the program in the core areas such as research, teaching, etc.
Project Management Advisory Council (PMAC)

- Strategic Needs
- Education and Training
- Research
- Marketing and Finance
- Internationalization

Dr. Elizabeth Cannon, President, UofC
Dr. Guy Gendron, Dean/Engineering
Pieter Diedericks, Chair/PMAC and VP (Major projects), Nexen Inc.
Harry Sambells, Vice-Chair/PMAC and Senior VP, SNC Lavalin

Dr. Guy Gendron, Dean/Engineering
Graduate Programme

- Master of Engineering (MEng)
- Master of Science (MSc)
- Doctor of Philosophy (PhD)
- Master of Project Management (MPM)
- Diploma (DipS/H)
- Master of Business Administration (Haskayne)
Actions: Industry Interactions in Teaching

- Design courses to suit industry needs
- Work with the relevant companies to teach the courses
  - Industry professionals can teach the entire course to be coordinated by a faculty member
- Create a business model of funding the program and making links to our students
- Design a capstone type course for students linked to industrial companies
Industry Teaching

- Bantrel Inc. teaches our “Project Engineering Management” course (EPC Engineering Business)
  - Role of the engineering manager in the project management team. The engineering firm, its organization and function; project development, engineering project control; design control; scope and estimate control; engineering interfaces with procurement and construction; engineering responsibility in project commissioning start-up and operations.
  - Taught by industry professionals every week
PM Training

PROJECT MANAGEMENT CERTIFICATION

Certification

PM Program
- Option 1: PM Foundation Courses
  60 hours Certification
  Five 2-Day Courses,
  Friday-Saturday
  9:00 a.m. - 4:00 p.m.
- Option 2: Industry Specific Training
  120 hours Certification
  Ten 2-day courses,
  Friday - Saturday
  9:00 a.m. - 4:00 p.m.

Seminars
- 1, 2 & 5 day Seminars
  6 instructional hours per day
- Covers technical and soft skills required for today’s competitive market.

In-House
- Conduct a targeted in-house program set to your organizational timetable.
- Apply the latest research tools and techniques to your organizational needs
- Design a specialized program to suit your needs. Client confidentiality is maintained at all times.
Some Facts: Current Project Management Program

- Research
  - Two research chair positions ($2.5 Million Endowed Project Management Chair and Canada Research Chair in Project Management Systems)
  - Research Support from Major Industries in Alberta
Consultants

Canadian Government
Natural Sciences and Engineering Research Council

University of Calgary

Construction Industry (Contractors, Claims Consultant, Associations)

Oil and Gas Industry
COAA
BANTEX
TransCanada
Syncrude
WorleyParsons
Suncor
Drivers
ConocoPhillips
Nexen

IT Companies

Canada Research Chair
NSERC
Natural Sciences and Engineering Research Council

Municipality
Edmonton

IT Companies

Consultants

Cohos Evamy

Canada Foundation for Innovation
Fondation canadienne pour l'innovation

Professional Career…

Current Research Partner Companies/organizations
Research Program # 1: Top Ten Targets for Improving Construction Productivity

- Four Phases from 2003
- 14 research partners including NSERC (Natural Sciences and Engineering Research Council)
- 30+ Best Practices and Tools in our Productivity ToolBox
- Training of 10 Ph.D., 16 M.Sc., 1 B.Sc. Students and 5 Post-Docs directly working with the companies to develop their research deliverables
Actions: Industry Interactions in Research (funding options)

- Develop industry based research programs (example: NSERC Collaborative and Development Grants)
  - NSERC contributes 2:1 for cash contributions of industry research dollars and matches the in-kind contributions
- Develop opportunities with new companies through NSERC engage grants
  - 25K start-up grant for 6 months
Actions: Industry Interactions in Research (Research Development and Implementation)

- Create an industry steering committee to develop and monitor the research program
- Invite industry experts/steering committee to provide input to the research proposal
- Arrange meetings with Industry personnel to update the research progress
- Develop a mechanism to get support from industrial companies to support the research program (ex: data collection, interviews, focus groups, etc)
- Conduct training sessions and workshops with the industrial partners to show the progress and the research deliverables
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<th><strong>INDUSTRIAL COMPANY SUPPORT FORM</strong></th>
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Sample Form to obtain support from industrial partners during research
Actions: Industry Interactions in Research (Student Interaction)

- Assign student(s) to industrial partners by linking their research plans
- Allow the students to have direct meetings with the steering committee or industrial company personnel to gather data for the research
- Design the research program to enable the students to conduct pilot studies with the company
- Work with organizations like MITACS in Canada to develop internship opportunities for students
Mitacs Accelerate Program

- Through Mitacs-Accelerate, graduate students and postdoctoral fellows from over 50 universities apply their specialized expertise to business-related research challenges. Armed with the very latest tools, techniques, and innovations, the intern (a graduate student or postdoctoral fellow) brings a new perspective to the problem faced by the industry partner.

- Interns spend approximately half of the time on-site with the industry partner; the remainder is spent at the university advancing the research under the guidance of a faculty supervisor.

- Each 4-month internship project receives $15,000 in direct funding, with the partner organization and Mitacs each providing $7,500.
Contact Us

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