

THE CITY OF CALGARY AND SAIT – BUILDING OUR CITY INFORMATION BROCHURE



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SAIT POLYTECHNIC

SAIT Polytechnic was established in 1916 and is the first public institution of its kind in the country. SAIT has delivered technology-intensive education to Calgarians and Albertans for almost 100 years.

Committed to choice and opportunity for students, more than 4% of Calgary's population comes to SAIT each year. As Alberta's largest certificate and diploma education and second largest apprenticeship trainer, SAIT is proud to contribute to Alberta's economic prosperity by contributing to the province's need for a skilled labour force. SAIT graduates launch their careers with in-demand technical skills, a strong work ethic and a passion for innovation.

SAIT provides relevant, skills-oriented education to 71,000 registrants each year, offering two baccalaureate degrees (construction management and accounting), four applied degrees, 33 apprenticeship trades, 67 diploma and certificate programs and 1,600 continuing education and corporate training courses.

In September 2012, SAIT welcomed students to its new Trades and Technology Complex; a complex that created new landmark buildings for Calgary and has been recognized internationally for its excellence in design and for its contribution to revolutionizing technology education.

In March 2013, our new President, Dr. David Ross joined the SAIT family.

I have recently completed my diploma in Civil Engineering Technology majoring in Municipal. Thank you. You helped lessen my financial burden, allowing me to focus on learning and studying.

*David Doun
Civil Engineering Technology
Recipient of the Assoc. for
Advancement of Cost
Engineers Award*



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FILLING INDUSTRY'S NEED FOR CONSTRUCTION PROJECT MANAGERS

The outlook for the construction industry in Alberta is for continued growth, particularly in Calgary. According to the Calgary Chamber of Commerce, commercial building permits are on the rise throughout the province with total annual values at their highest since 2008. Commercial vacancy rates and rent values in Alberta cities show no sign of letting up with Calgary experiencing an upswing in commercial construction.*

By 2021, Alberta's workforce will experience a shortage of approximately 887 construction and transportation managers according to Alberta's Occupational Demand and Supply Outlook 2011-2021.

According to Canada's Construction Labour Council, a lack of highly skilled construction project managers in Alberta could put major capital projects in jeopardy.

*Labour market conditions are generally balanced, but recruiting workers with the experience and skills to manage large new capital, sustaining capital and maintenance work could tighten market conditions for major industrial and engineering projects. The age profile for this occupation is much older than average. Replacement demand requirements are not met by new entrants into the labour force. ***

*Teetering on the Brink of Prosperity: 2013 Calgary and Alberta Economic Outlook, Calgary Chamber of Commerce
** Construction Looking Forward, 2012 - 2020 Key Highlights, Construction Sector Council, February 2012

ALBERTA'S CONSTRUCTION LABOUR FORCE: GROWTH PREDICTION

- The construction industry accounted for 10.5% of total employment in Alberta in 2012
- Employment in the construction industry is expected to grow at an average rate of 4.0% from 2011 to 2015
- The industry is expected to account for 11.1% of total employment in Alberta in 2015*
- For the coming decade, Alberta could experience an overall labour shortage of approximately 114,000 skilled workers.**

* Industry Profile, Construction Industry, Province of Alberta, June 2013

** Alberta's Occupational Demand and Supply Outlook 2011 - 2021, Government of Alberta



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BACHELOR OF SCIENCE IN CONSTRUCTION PROJECT MANAGEMENT

SAIT Polytechnic launched its four-year baccalaureate program in Construction Project Management in the fall of 2011 to answer industry's increasing demand for construction managers. SAIT's Bachelor of Science in Construction Project Management is a degree with management-based course of study that prepares students for leadership roles in the industry. Students gain a clear understanding of their roles and responsibilities in the construction industry and of how they relate to the roles of other industry professionals including architects, engineers, real estate managers, vendors and facility managers.

Construction safety is a consideration throughout all of SAIT's construction programs. Construction Project Management includes a core course in Construction Safety Management to ensure the maintenance of a safe construction site is a primary consideration when graduates assume leadership roles on their projects.

"In the past, most construction project managers were architects, engineers and designers who gained the experience by working in the field for 10 or 15 years," says Gord Nixon, SAIT's Vice-President Academic. "Traditionally, they were the product of considerable experience rather than a focused training program. This degree program provides a fast-lane to those interested in careers in construction project management."

There is a growing need for trained professionals to play leadership roles on project teams. Addressing the increasing demand for professionals in the construction industry, the program provides participants with structured management and leadership techniques that provide the basis for broader management decisions as well as on-site leadership in construction operations. The BSc in Construction Project Management consists of a combination of core courses, specialty courses and general education courses. Graduates may also pursue graduate-level credentials

"Project management is the critical skill set required for Alberta's construction industry to provide the most advanced infrastructure in North America. The Alberta Construction Association's membership is 2,000 companies alone, the majority of which employ project managers. We are confident graduates of this program will find ready employment in Alberta."

Ken Gibson
Executive Director
Alberta Construction Association

In September 2012, SAIT Polytechnic's Bachelor of Science Construction Project Management program received certification from the Canadian Institute of Quantity Surveyors (CIQS). CIQS is the premier professional association that sets the highest standard for construction and infrastructure economics in Canada. Designated Professional Quantity Surveyors (PQS) and Construction Estimator Certified (CEC) professionals counsel building owners, developers, designers and contractors at every stage of the design, procurement and construction process to help ensure delivery of return on investment.

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YOUR INVESTMENT IN SAIT WILL PAY DIVIDENDS

By creating awards for the Bachelor of Science Construction Project Management program you will help remove financial barriers for qualified students. They will help students attend SAIT who might otherwise miss the chance to receive a post secondary education. Scholarships and bursaries remove financial stress and help students focus on their studies. They also promote academic achievement and reward excellence.

Your support of student awards not only promotes individual student success, it is an investment in the long term health of our city, our province and our nation.

You only need to glance southward from SAIT's Heritage Hall, across the playing field toward Calgary's downtown to see evidence that the construction industry plays a vital role in the economic health of Calgary. Hundreds of men and women working thousands of hours have built our city, creating the impressive skyline that acts as a backdrop to our campus. Of course the number of construction projects and related jobs is multiplied many times when you add all of Calgary's commercial, institutional and residential projects in the far reaches of the city.

Your support of SAIT's BSc Construction Project Management program will help ensure our city and province will have the highly specialized skilled managers we need who have the ability to continue to guide the growth of our city. By creating endowed scholarships in this program, you will enable SAIT students to become leaders in their industry who will, in turn, continue to support the prosperity of our city long into the future.



I'd like to thank Gerald's family for this generous award. I am planning to bridge into a degree program, something I've been unable to consider until now.

*Jeremy Hughes
Civil Engineering Technology
Recipient of the
Gerald Selb Memorial Award*

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STUDENT AWARDS: INVESTMENT OPTIONS

In consultation with representatives of The City of Calgary, Development & Building Approvals, we have prepared the following charts outlining proposed student award endowment figures for sums of \$100,000 and \$150,000. The tables include disbursements that can be divided into a number of awards at your discretion, at a minimum of \$500 each.

Table 1: Estimated Growth and Award Pay Out Over 30 Years of Initial Investment of \$100,000

	Income* 7.00%	Disbursement* 3.50%	Balance at end of year
Initial Gift			\$100,000
Year 1	\$7,000	\$3,500	\$103,500
Year 5	8,033	4,016	118,769
Year 10	9,540	4,770	141,060
Year 15	11,331	5,665	167,535
Year 20	13,458	6,729	198,979
Year 25	15,983	7,992	236,324
Year 30	18,983	9,492	280,679
Totals at end of year 30	\$361,359	\$180,679	\$280,679

As table 1 illustrates, a contribution of \$100,000 will distribute approximately \$180,000 in interest to students over 30 years. The principal will grow to over \$280,000 and will continue to grow and provide meaningful support to SAIT students indefinitely.

Do I enjoy my job? I absolutely love it. The great thing about construction project management is it's new every single day and I love the variety and challenges it brings. At the end of the day there's something to look at to be proud about and know you were one key person on that team to help put that together.

*Brian Atwell
Project Manager, Graham
Construction
West LRT*

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Table 2: Estimated Growth and Award Pay Out Over 30 Years of Initial Investment of \$150,000

	Income* 7.00%	Disbursement* 3.50%	Balance at end of year
Initial Gift			\$150,000
Year 1	\$10,500	\$5,250	\$155,250
Year 5	12,049	6,024	178,153
Year 10	14,310	7,155	211,590
Year 15	16,996	8,498	251,302
Year 20	20,186	10,093	298,468
Year 25	23,975	11,987	354,487
Year 30	28,475	14,237	421,019
Totals at end of year 30	\$542,038	\$271,019	\$421,019

As table 2 illustrates, an initial investment of \$150,000 will disburse approximately \$271,000 to students over 30 years. The fund will grow to a value of approximately \$421,000 and will continue to accumulate interest and provide awards for SAIT students indefinitely.

*Actual future rates of return cannot be predicted. For illustration purposes, we have selected a rate of return of seven percent per year. We have assumed that the amount disbursed each year from the endowment fund will constant at 3.5 percent of the fund value at the end of the previous year. In 2011/12, SAIT's endowments realized a 6.41 percent return, and paid out 3.5 percent.



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