

YOUR FUTURE BEGINS AT SAIT.



Technology is who we are — it's what we do.

Southern Alberta Institute of Technology (SAIT) has been a pillar in Calgary, Alberta, Canada for **more than 100 years**. Opening its doors in 1916, SAIT has gained a global reputation for providing hands-on, technology-driven learning that creates job ready graduates.

Offering 100+ degree, diploma and certificate programs across a wide range of areas like business, transportation, engineering, digital technology, health and public safety and more, SAIT equips students with the skills they need for successful careers. Plus, **international students studying at SAIT might also be eligible for a post-graduation work permit (PGWP)**.

Whether you're looking to take the first step, advance or change careers, SAIT's philosophy of lifelong learning will support you on your path.

CALGARY

A PERFECT PLACE TO CALL HOME.

Calgary has a strong economy, vibrant arts and culture scene and diverse communities. All this combined with our close proximity to outdoor adventures within the city as well as in nearby Banff and the Canadian Rockies, Calgary is an awesome place to live, learn and play. It's no wonder Calgary is ranked in the top 10 of the most liveable cities in the world.* **You'll feel right at home here.**



Calgary is the third fastest
growing tech market**



The city enjoys 333 days
of sunshine each year



Enjoy lower living costs
compared to Toronto,
Vancouver and Montreal



Calgary has the highest
personal income per capita
in Canada



GET IN TOUCH

SAIT.ca/International
ConEdInternational@sait.ca

*Economist Intelligence Unit's 2023 annual ranking of the world's most liveable cities.

**Calgary Economic Development 2023.

PROFESSIONAL CERTIFICATE DATA SCIENCE



PGWP ELIGIBLE
CIP: 30.7001



MEDIAN SALARY
\$72,000 PER YEAR



CERTIFICATE
PROGRAM



DURATION
1 YEAR

PROGRAM OVERVIEW

Data science is a rapidly growing, interdisciplinary field that combines computer science, statistics, and domain-specific knowledge to extract insights from large, complex data sets. Professionals in this field are in high demand across industries for their ability to drive data-informed decisions. This professional certificate is ideal for individuals who are technically curious and looking to expand their skills. Taught by industry-certified SAIT instructors, the applied program focuses on developing in-demand data science competencies through hands-on work with real world-data. Topics include data wrangling, cleaning, storage, processing, analysis, modeling, visualization, reporting, machine learning, and Python programming.

ADMISSION REQUIREMENTS

- A post-secondary degree or diploma.
- Must demonstrate [English Language Proficiency](#) prior to admission.
- No prior formal training in either data science or programming is required but a general aptitude with technology and experience in learning new technologies are strongly recommended.

CAREER OPPORTUNITIES

- Data Analyst | NOC 21223
- Data Engineering | NOC 21211
- Product Manager | NOC 60010

CREDENTIALS AND PROFESSIONAL CERTIFICATIONS

- SAIT micro credential ([SAITMicro](#)) digital badge for eligible courses in the program.
- This program prepares you to take the Microsoft DP-900 Certification Exam.

CREDIT VS. NON-CREDIT

SAIT offers credit and non-credit programming. Non-credit programming allows working professionals to learn valuable skills that can help them advance their career opportunities. SAIT Continuing Education and Professional Studies delivers Professional Certificate programs as well as other non-credit credential programs. The Professional Certificate credential complies with Provincial and Federal Government policies and requirements, as well as SAIT policies, enabling successful international students to qualify for a Study Permit, work part-time while studying, and Post-Graduation Work Permit (PGWP).

CONTENT HIGHLIGHTS

The following topics will be covered in this one-year program:

- Data for Decision Making
- Data Architecture and Storage
- Data Wrangling and Cleaning
- Data Preparation and Delivery
- Statistical Analysis and Modeling
- Data Visualization and Storytelling
- Python Programming for Data Science
- Machine Learning Foundations
- Supervised and Unsupervised Learning
- AI Governance and Ethics
- Capstone Project: End-to-end data solution development