This profile is a starting point for your career exploration. It may help you identify options and guide you in conducting further research, reviewing occupations or connecting with people. It is not intended to list every possible career path, or to limit you to what you see here. This is a tool to guide discovery and uncover opportunities that fit you.

Actuarial practitioners, also known as actuaries, are responsible for assessing and quantifying financial risk.

**Key Skills & Knowledge**

**Problem solving** - Develop research models and establish hypotheses using logical thinking; Cause, effect and forecasting; Measure distances, sizes and relationships

**Analysis and evaluation** - Perform calculations and analyze probabilities; Attention to detail; Conceptualize and synthesize complex numbers, formulae and statistics

**Communication** - Share research findings with both technical and non-technical audiences through oral presentations and written communication

**Technical** - Design and use computer simulations

**Analytical** - Use of critical and creative thinking to evaluate ideas and see relationships among factors; Pattern, structure and relationship identification

**Research** - Survey design and analysis; Gather, analyze and synthesize data

**Sample Job Titles**

- Account Executive
- Accountant
- Actuarial Assistant
- Actuary
- Banker
- Business Analyst
- Computer Programmer
- Database Administrator
- Demographer
- Financial Analyst
- Foreign Services Officer
- Information Analyst
- Internal Auditor
- Logistics Specialist
- Marketing Consultant
- Mathematician
- Data Analyst
- Numerical Analyst
- Pension Specialist
- Program Analyst
- Research Analyst
- Risk Analyst/Manager
- Senior Negotiator
- Statistical Consultant
- Statistician
- Systems Analyst
- Tax Investigator
- Teacher/Professor
- Underwriter

Some of these roles may require further training, certification or education.

Check out the Alberta Government’s occupational profiles for salary info and more detail: [alis.alberta.ca/occinfo](alis.alberta.ca/occinfo)

**Need help deciding what to do?**

Formal Career Assessments like the Strong Interest Inventory and the Myers Briggs Type Indicator can be helpful tools for your career development. Request an assessment via CareerLink.
**Potential Industries**

- Actuarial Science
- Auditing
- Banks
- Business Analytics
- Consulting
- Consumer Research
- Data Management
- Defence
- Demographics
- Disaster Management
- Economics
- Employee Benefits/Pension
- Epidemiology
- Finance
- Genetics
- Government
- Information Systems
- Information Technologies
- Insurance Companies
- Investment Firms
- Manufacturing
- Market Research
- Market Research Firms
- Pharmaceutical
- Post-Secondary Institutions
- Psychometrics
- Research Firms
- Telecommunications

**Associations & Professional Development**

Associations provide an opportunity for continued professional development. Many also offer networking opportunities and other events for their members.

- Association for Women in Mathematics: [www.awm-math.org](http://www.awm-math.org)
- Canadian Applied and Industrial Mathematics Society: [www.caims.ca](http://www.caims.ca)
- Canadian Institute of Actuaries: [www.cia-ica.ca](http://www.cia-ica.ca)
- Canadian Mathematical Society: [cms.math.ca](http://cms.math.ca)
- Casualty Actuarial Society: [casact.org](http://casact.org)
- Institute of Mathematical Statistics: [www.imstat.org](http://www.imstat.org)
- International Association for Statistical Computing: [www.iasc-isic.org](http://www.iasc-isic.org)
- International Statistical Institute: [http://isi-web.org](http://isi-web.org)
- Mathematical Association of America: [www.maa.org](http://www.maa.org)
- Society of Actuaries (SOA): [www.soa.org](http://www.soa.org)
- Statistical Society of Canada: [www.ssc.ca](http://www.ssc.ca)
- Statistics Canada: [www.statcan.gc.ca](http://www.statcan.gc.ca)

**Career Services**

YOUR FUTURE STARTS HERE

- Career Planning
- Job Search Support
- Resume Reviews
- Career Workshops
- Online Job Postings
- Career Fairs
- Networking Events
- Information Sessions & much more!

**Connect with us:**

MacEwan Student Centre, Room 188
T: 403.220.8020
E: cstdnt@ucalgary.ca

CareerLink: [ucalgary.ca/careers](http://ucalgary.ca/careers)

Facebook: [ucalgary.ca](http://ucalgary.ca)
Twitter: @HireUCalgary

**Job Boards**

- Indeed: [https://ca.indeed.com](https://ca.indeed.com)
- eFinancial Careers: [www.efinancialcareers-canada.com](http://www.efinancialcareers-canada.com)
- Math-jobs.com: [www.math-jobs.com](http://www.math-jobs.com)
- Eluta: [www.eluta.ca](http://www.eluta.ca)
- CareerLink: [careerlink.ucalgary.ca](http://careerlink.ucalgary.ca)

**Additional Resources**

- 101 Careers in Mathematics by Andrew Sterrett
- Careers for Number Crunchers and Other Quantitative Types by Rebecca Burnett
- Careers in Mathematics by John Prescott
- Careers In Mathematics by Margaret Menzin & Robert Goldman
- Great Jobs for Math Majors by Stephen Lambert

**Faculty Contact**

Math Sciences 476
T: 403.220.5203
E: info@math.ucalgary.ca
W: math.ucalgary.ca/
W: ucalgary.ca/admissions/programs

**Student Clubs**

Society of Undergraduate Mathematics:
[math.ucalgary.ca/scum/home](http://math.ucalgary.ca/scum/home)

**Aligned Majors:**
- Mathematics