Career Options after Statistics

www.utsc.utoronto.ca/cms
Co-op, Specialist, Major, Minor

What is Statistics?

Statistics is the science of learning from data, comprising all aspects of the collection, analysis, interpretation and presentation of data. Statisticians apply their knowledge to solve problems in almost every field of science, technology and business.

Statistics uses mathematics to understand practical problems and uses modern computing to organize and analyze data. Statisticians command specialized tools for prediction and forecasting using data and statistical models.

Skills of Statistics Grads

- Identifying relationships and trends in data, and factors that could affect research results.
- Reporting results of statistical analyses, in the form of graphs, charts, and tables.
- Analysing and interpreting statistical data to identify significant differences in relationships
- Adapting statistical methods to solve specific problems in many fields.
- Developing software applications or programming to use for statistical modeling
- Developing and testing experimental designs, sampling techniques, and analytical methods.
- Preparing data for processing by organizing information, checking for any inaccuracies, and adjusting and weighting the raw data.
- Planning data collection methods for specific projects and determine sample groups
- Processing large amounts of data for statistical modeling and graphic analysis, via computer.
- Evaluating analytical methods and procedures for validity, applicability, efficiency, and accuracy.

Primary Source: onetonline.org

Specific courses at UTSC are intended to develop your writing and research skills – look for them!

Entry-Level Jobs for Bachelor Grads

Common employment destinations include:

- Actuarial Analyst in Insurance Providers
- Business Analyst in Telecommunications
- Associate in Compensation Consulting Firms
- Associate Risk Consultant in High Tech Manufacturers
- Consulting Associate in Software Developers
- Data & Incentives Analyst in Technology Integration Companies
- Data Specialist in Marketing Services
- Financial Analyst in Energy Producers

The Career Directory: www.canadastop100.com/tcd

Graduate & Professional Studies

Popular further education opportunities include:

- Statistics – Master of Science
- Actuarial Science – Master
- Epidemiology – Master of Science
- Accounting or Taxes – Master
- Bioinformatics – Master of Science or Graduate Certificate
- Business Administration – Master
- Chartered Financial Analyst – CFA

Did you know?
UTSC Statistics graduates are working in scientific research, risk management and compensation analysis.

Attend our LinkedIn workshop to learn about the *Find Alumni* tool for networking!

Statistics Grads from UTSC have gone on to:

- Manulife (Analyst)
- Towers Watson (Compensation Analyst)
- Scotiabank (Analyst)
- DBRS (Quantitative Research Analyst)

Examples of Fields that 'Fit' the Skills of Statistics Grads

- Transportation & Logistics
- Marketing & Consumer Research
- Financial Services & Accounting
- Insurance
- Consulting Firms (Actuarial, Compensation & Benefits)
- Hospitals & Medical Research Organizations
- Universities
- Government (Federal, Provincial, Regional, Municipal)

Your 4-Year Career Exploration Action Plan

1 Do Your Research

The databases below provide you with details about job prospects, nature of work, educational requirements, working conditions, pay and related career paths:
Career Cruising: Log into cln.utoronto.ca, click on Resources, and click on Career Cruising to be logged in automatically
O*Net: online.onetcenter.org (U.S. site)

Attend our workshop **Discover Your Skills and Career Options**, meet with a Career Counsellor, and use our resources to get to know your skills, values, personality and interests:
www.utsc.utoronto.ca/aacc/get-know-yourself

Use the advice on our tip sheets for gathering information:
www.utsc.utoronto.ca/aacc/tipsheets

- Information Interviews
- Working On-Campus
- Internships
- Volunteering

2 Explore Career Options & Get Experience

Gain exposure to your options in the world of work and make connections while you're a student via campus events and programs listed on cln.utoronto.ca and ccr.utoronto.ca:

- Extern Job Shadowing
- In the Field
- Explore It! (course-based)
- Partners in Leadership (4th year students)
- iLead, uLead, weLead (Dep't of Student Life)
- Employer Information Sessions
- Career & Volunteer Fairs
- Departmental Student Association Events

Apply for Work Study jobs in CLN in Fall and Spring! You might also find work via www.scsu.ca/jobs.

Find networking opportunities, internship programs and entry-level jobs via websites like www.talentegg.ca and www.charityvillage.ca.

As an upper year student (14+ credits), attend UTSC's Career Development Conference and participate in Jobs for Grads.

As a graduate, explore internships and other trainee programs like www.careeredge.ca

3 Build Your Network

Explore **Professional Associations** and get involved: volunteer for their events and conferences, and get to know people in your industry of interest. These are your future mentors, supervisors and colleagues!

Association for Mathematical and Computer Science Students – amacss.org
Statistics Canada – www.statcan.gc.ca/eng/services/wtc
Statistical Society of Canada – www.ssc.ca
International Statistical Institute – http://isi.cbs.nl
Computing Research Association – www.cra.org
Canadian Applied & Industrial Mathematics Society – www.caims.ca
Canadian Institute of Actuaries – www.cia-ica.ca
Canadian Operations Research Society – www.cors.ca
CFA Institute (Chartered Financial Analyst) – www.cfainstitute.org

Please note: This document is a starting point for your further research into career options in this field of study. For more information on this program and course requirements, please visit the departmental website at the top of the first page.