Career & Employment Services (CES)
www.uleth.ca/ross/ces

What can I do with a Major in Computer Science & GIS?

Skills Developed

- Ability to Work Independently
- Active Learner
- Analyze and Interpret Data
- Attention to Details
- Communication
- Confidence in Knowledge & Suggestions
- Collecting, Processing & Synthesizing Data
- Geographic Knowledge
- High Ethical Standards
- Interest in Designing and Operating Systems
- Interpersonal Skills
- Logical and Critical Thinking
- Organizational Ability
- Patience
- Prepare & Organize Records
- Problem Solving
- Reading Comprehension
- Research
- Statistical
- Technical Proficiency
- Teamwork

Work Environments

The GIS program is designed to provide both the specialized problem-solving skills and broad spatial modeling background that are required for decision support in fields as diverse as environmental management, urban planning, infrastructure design and marketing. Graduates have career possibilities in a number of exciting and dynamic occupations in firms, such as those specializing in marketing, environmental science, civil engineering, consulting, forestry management or energy transmission. Graduates may also find employment in academic or research institutes, governmental organizations, construction/real estate development companies, international development agencies, mining or...
resource companies, or in design, planning or technology based companies.

**Key Areas of Specialization:**

**Entry Level Job Titles**
These jobs are normally intended for new graduates and require 0 to 2 years of experience. It is important to note that many entry level positions require some related experience or demonstrated ability to perform job-related tasks. Even those positions that do not require experience will still prefer an experienced candidate, if one is available.

- Assistant Transit Planner
- CAD Technologist
- Computer Programmer
- Computer Systems Analyst
- Computer/Science Associate
- Data Entry Technician
- Engineering Technician
- Forest Technologist
- GIS Analyst
- GIS Developer
- GIS Forester
- GIS Spatial Analyst – Land Operations
- GIS Technician
- Helpdesk Support
- Information Systems Analyst/Specialist
- Information Systems Technician
- IT Consultant (Entry Level)
- IT Professional (Entry Level)
- IT Support Assistant
- Junior System Administrator (Entry Level)
- Network Operations Assistant
- Permit Specialist
- QA Analyst
- Research Analyst
- Software Developer (Entry Level)
- Solutions Specialist
- System Integration (Entry Level)
- Systems Specialist
- Technical Support Representative
- Web Developer
- Net Programmer

**Note:** The U of L offers various resources and programs to facilitate students in gaining work and volunteer experience. Find an entry level position on the CES job board or join the Management or Arts & Science Cooperative Education Programs. Summer jobs, part-time work, internship positions and volunteer experience help students to enhance their skillset and accumulate work experience for their future career.

**Related Job Titles**
These jobs generally require extensive, relevant work experience and/or further education.

- Aerial Photo Interpreter
- Aerospace Technologist
- Application Analyst
- Assistant Location Expert
- Cartographer
- Census Geographer
- City Planner
- Community Developer
- Compiler
- Computer Manufacturer
- Computer Trainer
- Conservation Technician
- Database Manager
- Demographer
- Ecotourism Consultant
- Electronic Data Processing Analyst
- Electronic Mapping Technician
- Environmental Advisor
- Environmental Impact Analyst
- Environmental Policy Analyst
- Extension Ranger

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• Financial Services Programmer
• Foreign Area Analyst
• Geographic Information Site Researcher
• Geological Surveyor
• Geomatics Engineer
• Geomatics Technologist
• Geophysicist
• GIS Applications Specialist
• GIS Programmer
• GIS Software Specialist
• Industrial Planner
• Information Systems Manager
• Information Technologist
• Insurance Programmer
• Land Developer
• Land Surveyor
• Land-Use Analyst/Planner
• Map Editor
• Mapping Technologist
• Market Research Analyst
• Natural Resources Specialist
• Network Engineer
• Park Administrator
• Parks & Recreation Technician
• Public Utilities Specialist
• Quality Control Engineer
• Recreational Planner
• Remote Sensing Analyst
• Satellite Image Analyst
• Software Developer
• Software Engineer
• Soil Assessment Technician
• Surveyor
• Systems Accountant
• Systems Analyst
• Systems Architect
• Transportation Analyst
• Urban/Regional Planner
• Web Architecture Technician
• Zoning Investigator

**Thinking Outside the Box: Other Possible Job Titles**

On average people change their careers three to five times in their lifetime. So, no matter what major you choose, you may still be interested in opportunities totally unrelated to your program of study. We encourage you to be open to all possibilities! Your undergraduate degree can be a springboard for other educational pursuits, and your transferable skills and experience can prepare you to work in a multitude of settings.

• Actuary
• Associate Sales Director
• Business Analyst
• Business Continuity Planner
• Clients Systems Administrator
• Communication Specialist
• Customer Support Analyst
• Distribution Manager
• Drafting Technician
• Ecologist
• Educational Assistant
• Encryption Specialist
• Environmental Engineer
• Financial Planner
• Hardware/Software Manufacturer
• Health Services Planner
• Hydrologist
• Instructor
• Internal Auditor
• Inventory Manager
• Library Technician
• Logistic Manager
• Management Analyst
• Material Controller
• Material Manager
• Mathematician
• Medical System Designer
• Mortgage Researcher
• Operation Manager
• Plant Manager
• Product Evaluator
• Production Line Manager
• Production Scheduler/Planner
• Purchasing Agent/Manager
• Quality Control Specialist
• Records Management Analyst
• Reporter
• Risk Analyst
• Risk and Insurance Specialist
• School Business Official
• Security Specialist
• Software Talent Agent
• Technical Recruiter
• Technical Sales Representative
• Technology Consultant
• Telecommunications Manager
• Underwriter
Useful Resources

Recommended websites to assist in exploring career options in the field of Computer Science & GIS

Canadian Institute of Geomatics
http://www.cig-acsg.ca

Geomatics Canada
http://www.gogeomatics.ca

Canadian Association of Geographers
http://www.cag-acg.ca/

Geomatics of Canada
http://www.giac.ca

Canadian Cartographic Association
http://cca-acc.org

Information Technology Association of Canada
http://www.itac.ca

Canadian GIS & Geomatics – Geo Employment Resources
http://gisjobs.ca

Alberta Learning Information Service Occupational Profiles
Geomatics Engineer, Geomatics Technologist, Land Surveyor

Canadian Information Processing Society
http://www.cips.ca

Canadian Advanced Technology Alliance
http://www.cata.ca

Computer Science Canada
http://www.compsci.ca/

Information and Communication Technology Council
http://www.ictc-ctic.ca/

Earthworks Jobs
http://www.earthworks-jobs.com

Geospatial Information & Technology Association
http://www.gita.org

Society for Conservation GIS
https://www.scgis.org

Cartography and Geographic Information Society
http://www.cartogis.org

North American Cartographic Information Society
http://www.nacis.org

Urban and Regional Information Systems Association
http://www.urisa.org/

American Geophysical Union
http://meetings.agu.org

Association of American Geographers
http://www.aag.org

Association for Geographic Information
http://www.agi.org.uk

Royal Geographical Society (with IBG)
http://www.rgs.org/HomePage.htm

Geographical Information Systems International Group
http://www.gisig.eu/about/

International Association for Management of Technology
http://www.iamot.org

Independent Computer Consultants Association
http://www.icca.org

Information System Security Association
www.issa.org

Association of Information Technology Professionals
http://www.aitp.org

Association for Information Systems
http://www.aisnet.org

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Campus Resources

Career & Employment Services (CES)  
http://www.uleth.ca/ross/ces/

Career Counselling (Counselling Services)  
http://www.uleth.ca/counselling/

Academic Advising  
http://www.uleth.ca/ross/academic-advising

Native Student Advising  
http://www.uleth.ca/ross/native-student-advising

Student Success Centre – Study Skills, Learning Strategies & Tutoring  
http://www.uleth.ca/student-success-centre/

Accommodated Learning Centre  
http://www.uleth.ca/ross/accommodated-learning-centre/

International Centre for Students  
http://www.uleth.ca/international/

Registrar Office & Student Services  
http://www.uleth.ca/ross/

Scholarship & Students Finance  
http://www.uleth.ca/ross/student-finance/

U of L Students’ Union & Student Clubs  
http://www.ulsu.ca/

Campus Job Resources

Career & Employment Services Job Board  
CES Job board

Arts & Science Applied Studies  
http://www.uleth.ca/artsci/applied-studies/students

Arts & Science Co-op Education & Internship  
http://www.uleth.ca/artsci/coop

Management Co-op Education  
http://www.uleth.ca/management/co-op

Study Abroad & Exchanges  
http://www.uleth.ca/international/content/study-abroad-exchanges

Management Study Abroad & Exchanges  
http://www.uleth.ca/management/study-abroad

Career & Employment Services (CES)  
CES assists U of L students and graduates with their career exploration and work search needs.

AH154 Anderson Hall, Phone: 403-329-2000  
Mon- Fri: 9:00 a.m. to 12:00 p.m.  
1:00 p.m. to 4:00 p.m.