What can I do with a Major in Remote Sensing?

Skills Developed

- Communication
- Critical & Analytical Problem Solving
- Research & Information Management
- Fieldwork & Risk Assessment Techniques
- In-depth Knowledge of Environmental & Social Issues
- Ability to Summarize Research Findings
- Knowledge of Geography & Mapping
- Patient & Methodical Approach to Work
- Statistical Analysis
- Knowledge of Geographic Information Systems (GIS)
- Mathematics
- Technical Proficiency
- Innovative
- Work Independently
- Teamwork

Work Environments

Employment in Remote Sensing has an exceptionally bright outlook. As a graduate in this emerging field, your skills will be in demand across a wide range of sectors - from corporate energy giants to specialized government departments. Graduates may find employment with geospatial technology companies, survey firms, mapping companies, aerospace engineering firms, positioning and navigation businesses, building or defense contractors, petroleum and energy producers, mining corporations, remote sensing companies, spaces agencies, geographical information companies, computer graphics businesses, public utilities or government departments.
Key Areas of Specialization:
Radiometric/Atmospheric Correction, Phenomenology and Algorithms, Measurements & Experiments, Automated Production Chains, Calibration/Validation, Data Preprocessing, Spectral Target Characterization, Information Extraction

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.

- Cartographic Aide
- Controls Technician
- Data Analyst/Technician
- Document Control Specialist
- Entry Level Remote Sensing Scientist
- Environmental Technician
- Field Service Technician
- GIS Technician
- Junior Electronics Technician
- Land Surveyor/Articling Student
- Materials Property Specialist
- Research Technician
- Seasonal Remote Sensing Office Technician

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.

- Application Developer
- Cartographic Technologist
- Coastal Erosion Analyst
- Coastal Scientist
- Construction Materials Technician
- Environmental Consultant
- Forest Systems Analyst
- Geo-Spatial Data Services Manager
- Geodetic Surveyor
- Geographer
- Geomatics Engineer
- Geomatics/Mapping Technologist
- GIS Officer (Remote Sensing Specialist)
- Information Security Officer
- Inventory Analyst
- Lab Engineering Technician
- Land Surveyor
- Marine Earth Observation Scientist
- Photogrammetric & Remote Sensing Specialist
- Photogrammetric Specialist
- Production Manager
- Project Assistant/Coordinator
- Remote Sensing Technologist
- Research Technician
- Sales Director – Geospatial Equipment
- Sales Representative – Surveying Services
- Survey CAD Technician
- Surveying Assistant/Consultant
- Technical Drafter
- Technical Writer
- University Professor
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.

- Application Engineer
- Biologist
- Cartographer
- Civil Engineer
- Control System Specialist
- Drafter
- Environmental Engineer
- Freelance Specialist Editor
- Geologist
- GIS Developer
- GIS Technician/Specialist
- Human Resources Advisor
- Hydrographer
- Maintenance Technician
- Oil & Gas Sales Executive
- Project Manager
- Quality Assurance Engineer
- Records Administrator

Useful Resources

Recommended websites to assist in exploring the field of Remote Sensing and its career opportunities.

- University of Lethbridge Remote Sensing Group
  [http://people.uleth.ca/~remotesensing/](http://people.uleth.ca/~remotesensing/)

- Alberta Terrestrial Imaging Centre
  [http://www.imagingcenter.ca](http://www.imagingcenter.ca)

- Alberta Geomatics Group
  [http://www.albertageomaticsgroup.ca](http://www.albertageomaticsgroup.ca)

- Canada Centre for Remote Sensing
  [http://www.nrcan.gc.ca/forests/remote-sensing/13429](http://www.nrcan.gc.ca/forests/remote-sensing/13429)

- Canadian Remote Sensing Society
  [http://www.crss-sct.ca](http://www.crss-sct.ca)

- Canadian Journal of Remote Sensing
  [http://pubs.casi.ca/journal/cjrs](http://pubs.casi.ca/journal/cjrs)

- Alberta Learning Information Service Occupational Profiles
  [Mapping Technologist, Geomatics Engineer](http://www.alsa.ab.ca)

- Canadian GIS & Geomatics – Geographic Information & Resources

- Canadian Institute of Geomatics
  [http://www.cig-acsg.ca](http://www.cig-acsg.ca)

- Canadian Association of Geographers

- Canadian Cartographic Association
  [http://cca-acc.org](http://cca-acc.org)

- Alberta Land Surveyors’ Association
  [http://www.alsa.ab.ca](http://www.alsa.ab.ca)

- Ontario Association of Remote Sensing
  [http://www.oars.on.ca](http://www.oars.on.ca)

- Eco Canada – Environmental Careers Organization, Job Profile

- European Association of Remote Sensing Companies
  [http://earsc.org/members](http://earsc.org/members)

- Geological Remote Sensing Group
  [https://www.grsg.org.uk](https://www.grsg.org.uk)

- International Society for Photogrammetry & Remote Sensing
# Campus Resources

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<th>Service</th>
<th>Website</th>
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<tr>
<td>Career &amp; Employment Services (CES)</td>
<td><a href="http://www.uleth.ca/ross/ces/">http://www.uleth.ca/ross/ces/</a></td>
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<td>Career Counselling (Counselling Services)</td>
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<tr>
<td>International Centre for Students</td>
<td><a href="http://www.uleth.ca/international/">http://www.uleth.ca/international/</a></td>
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<tr>
<td>Registrar Office &amp; Student Services</td>
<td><a href="http://www.uleth.ca/ross/">http://www.uleth.ca/ross/</a></td>
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<tr>
<td>U of L Students’ Union &amp; Student Clubs</td>
<td><a href="http://www.ulsu.ca/">http://www.ulsu.ca/</a></td>
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# Campus Job Resources

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<td>Arts &amp; Science Applied Studies</td>
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<tr>
<td>Arts &amp; Science Co-op Education &amp; Internship</td>
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</tr>
<tr>
<td>Study Abroad &amp; Exchanges</td>
<td><a href="http://www.uleth.ca/international/content/study-abroad-exchanges">http://www.uleth.ca/international/content/study-abroad-exchanges</a></td>
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<td>Management Study Abroad &amp; Exchanges</td>
<td><a href="http://www.uleth.ca/management/study-abroad">http://www.uleth.ca/management/study-abroad</a></td>
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**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.