

CAREERS IN SCIENCES

CHAMPLAIN REGIONAL COLLEGE – LENNOXVILLE

CAREER COUNSELING OFFICE

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CAREERS IN SCIENCES

This document was prepared by Champlain's Guidance Counsellor to help students explore different career paths in the science domain. There are seven spheres of activity for all occupations available in Canada. We invite you to click on the sphere(s) of activity that you are interested in for more information on the subject.

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| 1. Economics activity | 4. Production of goods | 7. Knowledge and culture |
| 2. Political organization | 5. Quest of resources | |
| 3. Communication | 6. Personal well-being | |

COMMUNICATION

Communication is the action of transmitting or receiving a message, an action that involves interacting with others. In fact, it's an essential need, present in all spheres of society. Whether we're looking for resources, producing goods, dealing with political or economic organization, ensuring the well-being of individuals, or acquiring and transmitting knowledge and culture, communication is essential.

Language, whether written or spoken, is part of the evolution of individuals and society. It evolves and changes over time, as knowledge increases. The means and tools of communication are evolving at great speed. Indeed, new technologies are constantly bringing new means of communication that facilitate the transmission of information and interaction not only between the various members of society, but also between different societies, peoples, or nations.

It is therefore essentially through media and electronic communication that the members of a society can satisfy their need to inform and communicate on a vast scale.

IT AND TELECOMMUNICATION

Database administrator Computer network administrator Computer systems administrator Information systems analyst Data architecture analyst Information systems analyst Information systems analyst Application Architect Information systems architect Software Designer Animation software developer Medical imaging software developer IT Project Manager	IT consultant Information technology consultant Computer network manager Systems manager Technology development engineer Software engineer Telecommunications engineer Software design engineer Data entry operator Computer operator Programmer Website programmer Programmer-analyst Industrial programmer-analyst	Microcomputer technical support manager Computer systems security specialist Telecommunications specialist (IT) Computer network technician Office automation technician Computer technician Industrial computing technician Telecommunications technician Computer Technologist Software and computer applications tester
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PERSONAL WELL-BEING

Human beings have a variety of physiological, psychological, and spiritual needs that we seek to satisfy to safeguard our equilibrium. We also look for things that can improve our well-being and quality of life. This means staying healthy, resting, and having fun. In other words, we seek to lead a satisfying life and to pursue development on various levels.

Society, concerned with its prosperity, also seeks to set up and organize various services that can meet people's needs for well-being. Indeed, the well-being of individuals is closely linked to the well-being of society. Whether it's tourism, leisure, healthcare, social or psychological intervention, professionals working in these sectors seek to improve living conditions and contribute to the personal and social well-being of members of society by meeting their needs through various care or services.

In this way, the whole organization of society in relation to people's well-being can be broken down into three main areas: services, healthcare, and support services.

<p>Services Catering Hospitality Tourism Leisure activities Sports Personal services Thanatology Dietetics</p>	<p>Health care Hospital administration General health care Specialized health care Alternative medicine Paramedical services Help and consultation services Psychological and social intervention</p>
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GENERAL HEALTH CARE

<p>Telephone nurse Occupational health nurse School nurse Public health physician Emergency medicine physician Medical officer of health General practitioner Beneficiary attendant</p>

<u>SPECIALIZED HEALTH CARE</u>		
Assistant optometrist Allergist Anesthesiologist Dental assistant Dental laboratory assistant Cardiologist Oral and maxillofacial surgeon Cardiovascular and thoracic surgeon General surgeon Orthopedic surgeon Plastic surgeon Thoracic surgeon Dentist Public health dentist Denturologist Dermatologist Endocrinologist Endodontist Gastroenterologist Geriatrician Hematologist Dental hygienist Orthodontic hygienist Surgical nurse	Psychiatric nurse Respiratory therapist Internist Medical genetics specialist Specialist in nuclear medicine Specialist in medical microbiology and infectiology Specialist in radiation oncology Specialist in diagnostic radiology Nephrologist Neurosurgeon Neurologist Obstetrician-gynecologist Ocularist Ophthalmologist Ophthalmologist Optician Optometrist Orthotist-prosthetist Orthodontist Orthoptist Otolaryngologist Periodontist Pediatrician Pedodontist	Psychiatrist Pulmonologist Podiatrist Prosthodontist Orthodontic prosthetist Psychiatrist Radiation oncologist Radiologist Rheumatologist Oral medicine specialist Lens laboratory technician Dental technician Dental ceramics technician Orthotics and prosthetics technician Diagnostic radiology technician Ultrasound Technologist Nuclear medicine technologist Orthotics and Prosthetics Technologist Medical Radiation Technologist Radiation oncology technologist Diagnostic radiology technologist Dental therapist Urologist
<u>ALTERNATIVE MEDICINE</u>		
Acupuncturist Chiropractor Homeopath Physiotherapist Play therapist Massage therapist Music therapist	Naturopath Orthotherapist Osteopath Phytotherapist Reflexologist Midwife Zootherapist	

<u>PARAMEDICAL SERVICES</u>	
Anatomical pathologist Pharmacy technical assistant Pathology assistant Audiologist Audioprosthetist Clinical biochemist Medical biologist Cytotechnologist Occupational therapist	Biomedical engineer Medical biochemist Speech therapist Medical pathologist Pharmacist Health institution pharmacist Hospital pharmacist Industrial pharmacist Medical physicist
Physiotherapist Sterilization technician Autopsy technician Medical electrophysiology technician Biomedical engineering technician Cytology Technologist Medical Technologist Medical electrophysiology technologist Physiotherapy Technologist Sports therapist	
<u>HOSPITAL ADMINISTRATION</u>	
Medical administrative assistant Medical archivist Hospital care department manager Director of nursing	Hospital center general manager Head nurse Hospital admitting clerk Medical records clerk
<u>DIETETICS</u>	
Dietitian Clinical dietitian Community nutrition dietitian Director of Dietetics	Food services supervisor Dietetic technician Clinical nutrition technician
<u>THANATOLOGY</u>	
Thanatology Funeral director Funeral director Gravedigger Cremation attendant	Morgue attendant Funeral home attendant Cemetery service manager Thanatologist Thanatopractor

PRODUCTION

The various processes and methods used to transform raw materials, manufacture products, and control their quality must be designed, planned, and organized. Once the initial transformations have been carried out, the various materials can be used to manufacture and build the goods needed for everyday life. For example, ore will be transformed into metal parts that will be used to build automobiles; plant fibers will be transformed into fabrics that, in turn, will become clothing; and wheat will be transformed into flour that will be used to make bread or other food products. In this way, various natural resources, once transformed, become paper, furniture, tools, clothing, food, buildings, and infrastructure (roads, bridges).

But all these goods - from lawnmowers and cars to buildings, industrial and commercial machinery, roads, and bridges - require maintenance and repair. Recycling is also a growing phenomenon, helping to conserve natural resources.

Planning, transformation, manufacturing, construction, maintenance, and repair - these are just some of the actions required to meet our need to produce goods.

<ol style="list-style-type: none"> 1. Planning <ul style="list-style-type: none"> ○ Production and quality control processes 2. Processing <ul style="list-style-type: none"> ○ Mineral processing ○ Metallurgy ○ Non-metallic mineral products ○ Energy ○ Lumber ○ Pulp and paper ○ Textiles ○ Food and beverages ○ Chemical products and processes 	<ol style="list-style-type: none"> 3. Manufacturing <ul style="list-style-type: none"> ○ Mechanical manufacturing ○ Transportation equipment ○ Electrical and electronic appliances ○ Computers and telecommunications equipment ○ Print production ○ Furniture ○ Clothing 4. Building & Construction <ul style="list-style-type: none"> ○ Building and public works 5. Maintenance and repair <ul style="list-style-type: none"> ○ Industrial equipment ○ Electrical and electronic equipment ○ Construction ○ Transport equipment
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MINERAL PROCESSING

Mill and flotation machine operator Precious metals assayer Materials and metallurgy engineer Metallurgical engineer	Precipitation tank worker Ore processing equipment repairer Mineral processing technologist
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<u>PRODUCTION AND QUALITY CONTROL PROCESSES</u>		
Aromatician Quality auditor Prevention advisor Production coordinator Industrial safety coordinator Industrial designer Raw materials production manager Industrial production manager Ergonomist	Industrial hygienist Production methods engineer Manufacturing techniques engineer Industrial quality control engineer Unified engineering engineer Industrial engineer Consulting engineer Performance engineer	Safety inspector (private company) Sanitary standards inspector Production planner Industrial hygiene technician Manufacturing production technician Industrial Systems Maintenance Analysis Technologist Industrial Engineering Technologist Industrial Maintenance Technologist
<u>METALLURGY</u>		
Blacksmith's helper Welding helper Boilermaker Boilermaker-fitter-repairer Melting furnace operator Die-casting machine operator Sheet metal working machine operator Forging press operator Foundry color	Mold finisher Blast furnace melter Blacksmith Physical metallurgy engineer Precision machinist Patternmaker Metal goods assembler Sand molder Mold maker	High-power press operator Welder Gas-arc welder Pressure vessel welder Welder-fitter Metallurgical technician (quality control) Metallurgical Process Technologist Metallurgical technologist Welding technician Structural metalwork tracer
<u>LUMBER</u>		
Forest engineer in wood science Forestry Technologist Forest products processing technologist		

<u>TEXTILES</u>		
Textile production plant manager Textile engineer Textile research and development technician	Textile Technologist Soft materials design technologist Textile finishing technologist	
<u>CHEMICAL PRODUCTS AND PROCESSES</u>		
<u>Chemist</u> Quality control chemist Oil refining operator Chemical processing plant operator Plastics press operator Pharmaceutical product controller Chemical engineer Research chemical engineer Biotechnology engineer Composite materials processing engineer Fiberglass laminator Laborer in plastics manufacturing Manufacturing worker (pharmaceutical industry) Foam rubber mixer	Plastic molding machine operator Rubber processing machine operator Tool and die maker Roofing asphalt preparer Thermosetting resin sprayer (plastic) Molding machine setter/operator Chemical engineering technician Chemical process technician Chemical processing plant technologist Chemical Technologist Chemical Engineering Technologist Petrochemical Engineering Technologist Composite materials processing technologist Plastics processing technologist	
<u>TRANSPORT EQUIPMENT</u>		
Aviation fitter Composite materials assembler-confectioner Factory bodybuilder Metal bonding machine operator Vehicle prototype builder Instrument inspector Aircraft assembly and equipment inspector Shipbuilding draftsman Aeronautical draftsman-designer Rigger Aeronautical engineer	Aerospace engineer Shipbuilding engineer Marine engineer Food transport engineer Aerospace assembly mechanic Automotive gear assembler Aerospace cable and circuit assembler Locomotive assembler Engine assembly line fitter Aircraft structures assembler Motor vehicle assembler	Aerospace fitter Railroad car setter Aircraft interior specialist Avionics Technician Aerospace Engineering Technician Naval Engineering Technician Naval Engineering Technician Aeronautical Technologist Naval Architecture Technologist Avionics Technologist Aircraft Maintenance Technologist Aerospace Engineering Technologist

ELECTRICAL AND ELECTRONIC SERVICES

Technical customer support agent (photonics)
 Video lottery machine assembler
 Electronics assembler
 Test and measurement technical assistant (photonics)
 Communications and instrumentation project manager (photonics)
 Electrical equipment manufacturing machine operator
 Business solutions consultant (photonics)
 Small electrical appliance tester
 Electronic systems tester
 Television set tester
 Electrical installation draftsman
 Electronic equipment designer
 New product implementation engineer (photonics)
 R&D product engineer (photonics)
 Electrical engineer (electronics)

Electronics engineer
 Optical engineer
 Appliance assembler
 Vending machine assembler
 Electrical control equipment fitter
 Electronics fitter
 Small transformer assembler
 Optoelectronics technician
 Production electronics repairer
 Photonics specialist
 Industrial electronics technician
 Electronics Engineering Technologist
 Optical production technologist
 Electronic and electrical equipment sales technician
 Control panel tester

COMPUTERS AND TELECOMMUNICATION EQUIPMENT

Computers and telecommunications equipment
 Computer hardware assembler
 Automated production engineer
 Computer engineer
 Integrated circuit assembler
 Communications equipment assembler

Aerospace Electronics Assembler
 Aerospace wiring fitter
 Electrical engineering technician (electro-computing equipment)
 Telecommunications Systems Installation Technician
 Robotics Technician
 Robotics Technologist
 Computer Systems Technologist

INDUSTRIAL EQUIPMENT

Industrial equipment
 Workshop or plant maintenance mechanic helper
 Sharpener
 Maintenance electrician
 Industrial electrician
 Millwright

Industrial mechanic
 Millwright
 Tool maintenance worker
 General plant or workshop maintenance worker
 Hydraulic equipment repairer
 Sandblaster

<u>BUILDING AND PUBLIC WORKS</u>		
Building and public works Carpentry and joinery helper Awnings installation helper Glass products installation helper Workshop carpenter helper Painter's helper Flooring installer helper Architect Metal structure assembler Bricklayer Insulator Boiler and pipe insulator Tiler Carpenter Maintenance carpenter Cementer-applicator Backhoe loader operator Grader operator Petroleum equipment installation foreman Roofing contractor Environmental designer Draftsman Architectural draftsman Commercial Draftsman Civil Engineering Draftsman Plumbing and Heating Draftsman Building Mechanics Draftsman Electrician Alarm systems electronics technician Building contractor Paving contractor Public works contractor Electrical estimator	Tinsmith Ironworker Concrete finisher Refrigeration technician Crane operator Civil engineer Soil mechanics engineer Building services engineer Electrical installation inspector Building inspector Building inspector (construction) Building inspector (public works) Building safety inspector (government) Heating equipment installer Fence installer Exterior cladding installer Security systems installer Public works maintenance laborer Construction laborer Tinsmith Elevator Mechanic Commercial air conditioning mechanic Heavy Equipment and Vehicle Mechanic Heavy Construction Equipment Mechanic Stationary Engine Mechanic Fire protection mechanic Refrigeration and air conditioning mechanic Construction carpenter Gas fitter Fire protection fitter Structural Steel Erector Window and Door Erector Structural Steel Assembler Architectural Assembler	Heavy Equipment Operator Crushing Equipment Operator Bulldozer Operator Heavy construction equipment operator Heavy construction machinery operator Excavator Operator Building materials sampling worker Prefabricated housing production worker Paving worker Glass worker (glass product manufacturing) Building painter Plasterer Plumber Heating appliance installer Flexible floor covering installer Interior systems installer Carpet installer Heavy equipment maintenance technician Gas appliance maintenance and repair technician Riveter Scuba diver Locksmith Architectural Technologist Construction Cost Estimating Technologist Civil engineering technologist Building mechanics technologist Sheet metal worker Sheet metal assembler Pipefitter Industrial and institutional maintenance pipefitter Pipefitter-welder Glazier Building glazier

ELECTRICAL AND ELECTRONIC EQUIPMENT

<p>Electrical and electronic equipment Sewing machine repairer Electrical appliance mechanic Maintenance electromechanics Office machine electromechanics Vending machine electromechanics Electromechanics, automated systems Household appliance electronics technician Service electronics technician Computer equipment maintenance electronics technician Cable splicer</p>	<p>Antenna installer Satellite dish installer Telephone set installer Telecommunications equipment installer-repairer Photocopier maintenance mechanic Sewing machine mechanic Office automation equipment maintainer Portable appliance repairer Power tool repairer Electronic cash register repairer</p>	<p>Telephone exchange repairer Electronic controls repairer Video equipment repairer Radio repairer Television repairer Audiovisual equipment repairer-installer Appliance technician CAD/CAM Repair Technician Cable Technologist Audiovisual Equipment Technologist CAD/CAM Repair Technologist</p>
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FOOD AND BEVERAGES

<p>Food engineer (technical representation and sales) Food research and development engineer Systems installation engineer (food industry) Engineer specializing in food process management Engineer specializing in process quality (food industry) Design engineer in the food industry Fisheries inspector Food products inspector Animal products inspector</p>	<p>Food scientist Food, beverage, and tobacco processing supervisor Food process technologist Food Product Quality Control Technologist New food product development technologist Dairy product manufacturing technologist Food Manufacturing Process Technologist Food processing technologist Food product specialist technologist Food auditor</p>
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<u>ENERGY</u>		
Maintenance electrician Hydroelectric plant operator Control room controller Power plant electrician Electrical engineer Mechanical engineer (energy) Nuclear engineer Power plant engineer Electricity meter installer		Electricity distribution lineman Power generation lineman Telecommunications line and cable installer Electricity Operator Consumption regulator Meter reader Electrical testing technologist Nuclear power plant technologist Electrical engineering technologist
<u>MECHANICAL MANUFACTURING</u>		
Machine Shop Helper Metal fabrication shop assistant Die setter Gunsmith Electromechanical equipment assembler Industrial machine operator Numerically controlled machine tool operator Precision mechanical instrument maker Tool and gauge inspector Mechanical draftsman Industrial mechanics draftsman	Machinist Watchmaker Watchmaker Mechanical engineer Mechanical engineer Machinist (machining) Die maker Stationary machine operator Toolmaker Tool and die maker Toolmaker-rectifier	Numerically controlled machine tool programmer Boring machine setter-driver Milling machine setter-driver Drilling machine set-up operator Grinder set-up operator Lathe set-up operator Camera repairer Surveying and optical instrument repairer Mechanical engineering technician Mechanical engineering technologist

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THE QUEST OF RESOURCES

Natural resources are essential to human subsistence. They enable us to find the elements we need to feed, clothe, house ourselves, and much more. The goods we use come from natural resources that have been explored and exploited. Indeed, in order to use resources, we first have to find them, and then extract them from their natural environment in order to transform them. Human beings are constantly on the lookout for reserves of metals, minerals, hydrocarbons, or water needed to produce goods such as houses, vehicles or electricity. We must explore the territory, identify, locate, and inventory resources, then plan and develop methods for exploiting the sites.

However, natural resources are not inexhaustible. Protecting resources and the environment, the biodiversity of flora and fauna, and the renewal of resources are also of vital importance to ensure the balance of life on Earth, the survival of species and the availability of resources for future generations. Action is being taken to use resources more rationally, to prevent their deterioration and wastage, and to combat natural disasters such as insects, forest fires and floods. To this end, laws, standards, and regulations have been adopted for the exploration, exploitation and conservation of the resources we need.

<p>1. Exploration</p> <ul style="list-style-type: none"> ○ Geology and hydrology ○ Geomatics ○ Flora and fauna ○ Meteorology 	<p>2. Operations</p> <ul style="list-style-type: none"> ○ Water management ○ Mining ○ Forestry ○ Agriculture ○ Horticulture ○ Animal husbandry ○ Fishing and hunting 	<p>3. Conservation</p> <ul style="list-style-type: none"> ○ Natural environment ○ Human environment
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GEOLOGY AND HYDROLOGY

<p>Geology and hydrology Core drilling operator Geochemist Geologist Geophysicist Geophysicist-pro prospector Hydrogeologist Hydrologist Petroleum engineer Geological engineer</p>	<p>Mineralogist Oceanographer Seismologist Seismologist Petroleum Mapping Technologist Geological technologist Geophysical technologist Hydrogeology technologist Hydrology technologist Mining prospecting technologist</p>
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<u>GEOMATICS</u>	
Aerial photography analyst Land surveyor Geometrician Hydrographer Geomatics engineer Aerial photography mosaicist Survey instrument operator Surveying technician	Mapping technician Aerial survey technician Photogrammetry Technician Spatial Reference Information Systems (SIRS) Technician Remote sensing technician Geomatics Technologist Photogrammetry Technologist
<u>FLORAL AND FAUNA</u>	
Parasitology biochemist Biologist Environmental biologist Aquatic biologist Parasitology biologist Botanist Entomologist Agricultural entomologist Herpetologist	Ichthyologist Weed scientist Mycologist Ornithologist Plant pathologist Biological laboratory technician Zoology technician Biological technologist Botanical technologist Zoologist
<u>METEOROLOGY</u>	
Climatologist Meteorologist Meteorological technician	
<u>WATER</u>	
Water well driller Civil engineer for water resources Water engineer Water management engineer	Drinking water treatment plant operator Wastewater treatment plant operator Water purification technologist

<u>MINES</u>		
Boutefeu Carrier Off-highway truck driver Drill driver Dynamitor Driller Diamond driller	Offshore rig driller Mining engineer Mining inspector Miner Mining equipment repairer Mining Technologist	
<u>FOREST</u>		
Lumberjack Measuring binder Forest foreman Forest foreman Forest inventory estimator <u>Forest engineer</u> Wood scaler Forestry machinery operator	Forestry heavy machinery operator Forest tractor operator Forest operations specialist Silviculturist Forestry Technician Silviculture Technician Forestry Technologist Log sorter	
<u>LIVESTOCK BREEDING</u>		
Animal production agronomist Beekeeper Aquiculturist Poultry farmer (laying hens) Poultry farmer (meat production) Livestock technician Dog trainer Dog breeder Horse trainer Dairy farm operator Animal protection inspector	Farrier Poultry worker Cattle farmer Dairy farm worker Livestock farm worker Groom Veterinary pathologist Fish farmer Pet care attendant Fish or aquaculture establishment attendant Fur farmer Sheep farmer	Cattle producer Horse farmer Rabbit farmer Pork producer Veterinary laboratory technician Aquaculture technician Animal health technician Equine technician Animal Production Technologist Animal Production Technologist <u>Veterinarian</u>

<u>AGRICULTURE</u>		
Maple syrup producer Farmer Mycologist farmer Agro-economist <u>Agronomist</u> Extension service agronomist Organic farming agronomist Crop production agronomist Soil scientist Agronomist Soil bacteriologist Cereal farmer Agricultural machinery operator Agricultural plant foreman Fruit picker Fruit and vegetable packer	Farmer Farm manager Agricultural engineer Plant products inspector Agricultural environment inspector Market gardener Agricultural laborer Farmer Agricultural machinery mechanic Market gardener Specialized farm worker Sugar bush worker Plant biologist Apple grower Fruit grower	Organic fruit and vegetable grower Vegetable grower Potato grower Seed grower Tobacco grower Agronomy technician Scouting technician Agricultural environment technologist Farm management consulting technologist Agricultural technologist Scouting technologist Agricultural environment technologist Vegetable and fruit horticulture technologist Plant Production Technologist Viticulturist
<u>HORTICULTURE</u>		
Assistant arborist Arboriculturist Tree pruner Landscape architect Horticultural research assistant Ornamental horticulture sales clerk Ornamental horticulture sales consultant Pruner Landscaping contractor Floriculturist Inspector for an organization Landscape gardener Earthworks and landscaping laborer Sod layer	Nursery worker Horticultural worker Nurseryman Park maintenance worker Sod grower Sprayer Pharmacy technician Tree service technician Ornamental horticulture technologist Landscape technologist Agro-environmental horticultural technologist Ornamental Horticulture Technologist Landscape Technologist	

THE NATURAL ENVIRONMENT

Fire prevention officer
 Forest fire prevention officer
 Wildlife protection officer
 Eco-geologist
 Ecologist
 Resource organization economist
 Zookeeper
 Museum guide
 Heritage interpreter-guide
 Natural and biological environment interpreter
 Environmental interpreter

Nature interpreter
 Marine observer
 Forestry worker
 Tree planter
 Forest firefighter
 Park superintendent
 Wildlife technician
 Wildlife technician
 Applied ecology technician
 Forestry technician
 Environmental Geology Technologist

THE HUMAN ENVIRONMENT

Occupational health and safety advisor
 Civil engineer in general ecology
 Environmental engineer
 Pollution control inspector
 Municipal inspector
 Incineration plant operator
 Recyclable materials collector
 Recycling attendant

Ink cartridge recycler
 Hazardous materials transportation attendant
 Regulatory, environmental, and occupational health and safety specialist
 Land use planning technician
 Environmental technician
 Industrial sanitation and safety technologist
 Environmental protection technologist
[Urban planner](#)

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KNOWLEDGE AND CULTURE

The growth of a society and its people is linked to the acquisition and transmission of knowledge, and to the expression and preservation of its culture. Knowledge is the sum of acquired knowledge. Over time, knowledge grows. Many people devote themselves to scientific research, with the aim of broadening the scope of knowledge and finding practical applications for it. For a long time, the transmission of knowledge was almost exclusively ensured by parents, but it is now also ensured by people who are part of a highly organized educational network. Teaching, its organization and methods are evolving, and are also seeking to integrate the learning tools created by new technologies.

The knowledge and culture of a society also seek to express themselves. In fact, whether in music, dance, literature or the visual arts, the arts communicate not only knowledge, but also the expression of human experience in all its aspects (emotions, beauty, reflection, etc.).

The members of any society also seek to learn about the knowledge of their ancestors, and to preserve their own to pass it on to future generations. This is why some people ensure the transmission of knowledge of history, itself made possible by the testimonies (works of art, books, or various documents) that have been archived. Acquiring, expressing, and preserving these are the actions by which a society's knowledge and culture are organized.

<p>1. Acquisition</p> <ul style="list-style-type: none"> ○ Education ○ Research 	<p>2. Expression</p> <ul style="list-style-type: none"> ○ Literature and languages ○ Music ○ Dance ○ Artistic production ○ Performing arts ○ Visual arts ○ Arts and crafts 	<p>3. Conservation</p> <ul style="list-style-type: none"> ○ History ○ Archives and museology
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EDUCATION

<p>Individual educational assistant Student life coordinator Research and teaching assistant School and career information advisor Pedagogical advisor College department coordinator School principal University department head Director of student services</p>	<p>General director of education Museum educator Cégep teacher Secondary school teacher Adult education teacher Special education teacher Corporate trainer Orthopedagogue University professor</p>	<p>Secondary vocational teacher College technical training teacher College or university registrar Special education specialist Specialist in educational measurement and evaluation Specialist in teaching techniques and media Didactic materials technician</p>
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RESEARCH

Public health research officer Socio-economic research and planning officer Anatomist Astronomer Astrophysicist Bacteriologist Bioinformatician Biochemist Biophysicist Biophysicist Optical researcher Demographer Epidemiologist Exobiologist Geneticist Geographer Immunologist Artificial intelligence engineer Physics engineer Interviewer	Applied mathematician Research mathematician Microbiologist Industrial microbiologist Medical microbiologist Paleontologist Pharmacologist Philosopher Physicist Nuclear physicist Physiologist Psychocognitician Psychometrician Sociologist Operations research specialist Geographic information specialist Statistician Applied Statistician Research, survey and polling technician	Bacteriology Technician Biological technician Chemical biology technician Information gathering technician Administrative Investigation Technician Statistics technician Microbiology Technician Specialist Physics Laboratory Technologist Bacteriology Technologist Biochemistry Technologist Chemical biology technologist Nuclear engineering technologist Microbiology technologist Optics Technologist Opto-Mechanics Technologist Photonics technologist Theologian Toxicologist Virologist
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