

## EDUCATIONAL REQUIREMENTS

A good background in science and mathematics, the ability to communicate effectively through speaking and writing, and a basic understanding of government are all beneficial steps in becoming a transportation professional.

Transportation professionals should prepare for their careers by enrolling in engineering programs, primarily civil engineering programs, but also electrical, mechanical, chemical or industrial engineering. However, because of the diverse nature of the transportation profession, many also have backgrounds in planning, science, environmental planning, computing and a number of other fields.

## PROSPECTIVE EMPLOYMENT

The majority of transportation professionals are employed either in the private sector as consultants, or with public agencies. Others engage in teaching and research at colleges and universities. Job opportunities exist both in Canada and internationally, and are often listed in publications such as the ITE Journal, a magazine published monthly by the Institute of Transportation Engineers. Also, most colleges and universities have job-placement program to help their graduating students find employment.

A career in transportation can include working as a consultant, in government, or researcher among other fields.

## WHAT IS CITE & ITE?

The Canadian Institute of Transportation Engineers (CITE) is composed of more than 1,700 transportation engineers, planners, technologists and students across Canada. CITE is an integral part of the Institute of Transportation Engineers (ITE) which consists of more than 15,000 transportation professionals in more than 80 countries. These transportation professionals are responsible for the safe and efficient

movement of people and goods on streets, highways and transit systems. Since 1930, ITE has been providing transportation professionals with programs and resources to help them meet those responsibilities through professional development seminars, technical reports, a monthly journal, local, regional and international meetings, and other forums for the exchange of opinion, ideas, techniques and research.

## WHO TO CONTACT FOR MORE INFORMATION

### CANADIAN INSTITUTE OF TRANSPORTATION ENGINEERS

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### TRANSPORTATION ASSOCIATION OF CANADA

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### CANADIAN URBAN TRANSIT ASSOCIATION

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### INSTITUTE OF TRANSPORTATION ENGINEERS

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# TRANSPORTATION Engineering & Planning

Canadian Institute of  
Transportation Engineers





*Put yourself in the center of the action...*

*be a transportation professional!*

## DO YOU WANT TO...

- Solve real-world problems... both big & small... using state-of-the-art technology?
- Work with a wide variety of professionals: government leaders, engineers, planners, architects, land developers, lawyers and others?
- Be involved in your community?
- Focus on people as well as technology?
- Help reduce the environmental impact of transportation?

Then you should consider a career as a transportation professional. It's a vital & growing profession with excellent career growth potential and endless opportunities! As a transportation professional you will be in great demand to

plan, design, operate and manage transportation facilities while working on a wide variety of projects such as:

- Planning, designing and operating highways, airports, railroads and public transit systems
- Developing and implementing projects to relieve traffic congestion, such as bus/car pool lanes on roadways
- Preparing traffic impact studies for new developments and determining transportation improvements to mitigate the additional traffic
- Investigating and minimizing the effects of new transportation projects on traffic congestion, air and noise pollution and sensitive natural environments
- Improving motorist safety by conducting studies and implementing actions aimed at reducing the number of collisions and deaths on our highways.
- Designing and operating systems that advise drivers where traffic jams have occurred

## TRANSPORTATION CAREERS

### CONSULTANT

The majority of transportation professionals now work in the private sector for consulting firms. As a transportation consultant, you will work for a variety of clients in the public and private sectors, including business leaders, neighbourhood groups and government officials.



Typical projects can cover anything from assessing transportation needs for a major land development site such as a regional shopping centre, to developing traffic calming techniques to reduce traffic through residential neighbourhoods. You will help design roadways, public transit systems, parking facilities and more. Your communication skills will be just as important as your technical knowledge.

### GOVERNMENT

Transportation professionals serve in numerous municipal, regional, provincial or federal government agencies. Working for a government, you might oversee the planning and construction of new highways or the operation of a system where the traffic signals are controlled by a computer. You might help design or manage commuter roads or public transit systems. Whatever your responsibilities are you will deal with people ... neighbourhood groups, business leaders, and elected officials.

### RESEARCHER

As a researcher you will tackle the unknown. Perhaps you will develop a new computer program for a system inside a vehicle that provides the driver route guidance and/or information. Or perhaps you will develop new ways to design automated highways that could control vehicles on the road. You will work on the latest technology and with the top thinkers in the profession. You might be part of a team assigned to a large federal or provincial project or manage your own smaller study for a private concern - working today on the transportation systems of tomorrow!