



# INDUSTRIAL ENGINEER

**OTHER JOB TITLES:** *manufacturing engineer, plant engineer, production engineer, quality control engineer, safety engineer, work measurement engineer.*

**IF YOU WANT GOOD PAY, OPPORTUNITIES TO LEARN ON THE JOB, A GREAT LIFESTYLE AND THE CHANCE TO WORK IN CANADA'S GREENEST WORKFORCE, THEN THE FOREST PRODUCTS INDUSTRY IS RIGHT FOR YOU.**

Why green? The forests are a renewable natural resource and the Canadian forest products industry is known for its world-class environmental credentials, including having the most certified forests in the world, and cutting more than 70% of its greenhouse gas emissions since 1990.

The industry offers something for everyone. It's an industry with a reputation for investing in skills training and career growth, and no matter what part of the forest products industry you work in - on the mill floor as a mechanical engineer, or in the forest as a forestry technician - every job is part of the greenest industry in Canada.

Canadian forest product companies will need to hire 60,000, or more, **new workers by 2020** to meet demand and you could be one of them!

## DESCRIPTION

The work of an industrial engineer comes down to integrating systems of people, materials, equipment and energy. Industrial engineers conduct studies and develop ways to enhance efficiency. Their work covers how equipment is used, how human resources are deployed, and how technology is integrated into operations.

If you think of yourself as a versatile problem solver, industrial engineering could be a good fit. Your skill set will make you a sought-after professional in the forest products industry. It's an industry that is focused on efficiency, innovation and environmental sustainability.

Industrial engineers are designing better ways to produce lumber and other forest products. They are greening operations by integrating environmentally sustainable energy systems, like co-generation from wood waste, into mills.

## KEY RESPONSIBILITIES

Industrial engineers perform a wide range of technical functions. On any given day, you might:

- design and plan plant layouts and facilities
- study new machinery and facilities, and recommend purchasing
- improve efficiency
- analyze production costs
- match human resource skills to requirements and develop training programs
- develop maintenance standards, schedules and programs
- enhance industrial health and safety

### THIS JOB IS RIGHT FOR YOU IF...

- you want to live an oversized life in one of Canada's beautiful forest communities
- a sense of community is important to you
- you like variety and learning new things
- you want to make a difference working in a green job
- you like the outdoors
- you are a team player
- you like machines
- you have an analytical mind and like designing systems

## \$ EARNING POTENTIAL



This is the high end of the Canadian average. In some areas, industrial engineers with seniority make more than \$62 per hour.

## + BENEFITS MAY INCLUDE

- Apprenticeships
- Career growth
- Daycare
- Dental and medical plans
- Employee assistance plans
- Pensions
- Ongoing training

## EDUCATION AND TRAINING

You have to earn a degree in industrial engineering from a university to work as an industrial engineer. Students graduating from undergraduate programs in industrial engineering often choose to become certified as professional engineers. It means you are licensed to practice engineering, and that you're a full-fledged member of the engineering profession. Many industrial engineering programs offer co-op work experience. This means you can earn money while you're a student and also find out first-hand why choosing a career in the forest products industry is worthwhile. Here is a complete list of Canadian Universities and Colleges: [thegreenestworkforce.ca/education](http://thegreenestworkforce.ca/education)

## #LIFE'S BETTER HERE

**Dare to Compare. See how much time and money you would save by moving to a forest community. Visit [thegreenestworkforce.ca/compare](http://thegreenestworkforce.ca/compare)**