SCIENCES AND ENGINEERING

POSITIONS IN THE FOREST PRODUCTS INDUSTRY

thegreenestworkforce.ca
canada's forest products industry

ELECTRICAL ENGINEER

OTHER JOB TITLES: *control systems engineer, electronics engineer, signal engineer, process instrumentation engineer, displays and controls design 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

Electrical and electronics engineers are primarily concerned with how electricity is produced, transmitted and used. They design and test electrical and electronic equipment and systems.

As an electrical engineer in a mill, you will work closely with technical and operations personnel to monitor and optimize processes. You could also find yourself coordinating projects and trials to increase production, improve quality and reduce costs. You will also work to maximize mill uptime and the need for reliable power systems. Unexpected outages can create problematic amounts of waste, so you will work to prevent downtime so the mill can maintain production.

Electrical engineers also get to show off their green credentials by maximizing the forest products industry's ability to produce green energy. Co-generation projects, in which sawmills burn waste wood to generate additional power, are a prime example.

KEY RESPONSIBILITIES

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

- conduct economic and technical feasibility studies on generation and distribution networks and related machinery
- design electrical components, systems and equipment
- Investigate electrical or electronic failures
- conduct quality control programs
- supervise technicians and engineers
- conduct simulations with micro- or nano-devices
- work in administration

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 science
- you like processes
- you are interested in how things work

$ EARNING POTENTIAL

$55 PER HOUR

This is the high end of the Canadian average. In some areas, electrical engineers with seniority make closer to $72 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 an electrical engineering degree from a university to work as an electrical engineer. Students graduating from undergraduate programs in electrical 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 electrical 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

#LIFE'SBETTERHERE

Dare to Compare. See how much time and money you would save by moving to a forest community. Visit thegreenestworkforce.ca/compare

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