



Making Houses Homes

2014

12th Annual
First Nations Northern
Housing Conference

February 11th - 13th

Technical Youth Careers Outreach Project Presentation

IN PARTNERSHIP WITH:



Aboriginal Affairs and
Northern Development Canada

Affaires autochtones et
Développement du Nord Canada



DURABOND
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the Builders Challenge



www.northernhousingconference.com

History - TYCOP



Mission

- Empower First Nation youth to pursue careers in Science and Technology
- Encourage and promote careers which help create future capacity in areas vital to FN operations
- Illustrate personal, professional, community and global benefits of education attainment
- Be a resource for youth interested in Science, Technology, Mining and Trades (Web, Print, Promotional Items)
- Present Role Models

Timing

- More than 460,000 First Nation Youth under the age of 20
- Large amount of workers entering into retirement age, the demand for young skilled employees is at an all-time high
- STEM (Science, Technology, Engineering, Mathematics) are always in demand
- It is estimated by year 2020, the Canadian mining industry will have to hire 100,000 new workers
- By 2020, at least a million more skilled trade workers will be in demand
- Communication extremely mobile

Find us on the web!



First Nation Careers

@fncareers

Find us on the web!



www.firstnationcareers.com

www.northernhousingconference.com

Print Material

TECHNICAL YOUTH CAREER OUTREACH PROJECT (TYCOP)

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Role Model

Renata Smoke
Geology Assistant
Skillwater Canada Incorporated

“ Ontario is a great place to study and work in geology. It is an extremely resource rich area, with tons of jobs available. Geology is a thrill to me, because you never know what you'll find. There is a lot of exploration near First Nation communities, which is why it's important for students to study science and technology and get involved in mining - to have a say in what happens and contribute their unique community knowledge. ”

MINING

Stone and metal mining has been done since pre-historic times. Modern mining processes involve prospecting, analysis, extraction, and final reclamation of the land after the mine is closed. Ores recovered by mining include metals, coal and oil shale, gemstones, limestone, dimension stone, rock salt, potash, gravel, and clay. Mining can also include extraction of petroleum, natural gas, and water. First Nations people working in mining can help to increase the understanding of the industry, providing input and perspective on lands and resources while maintaining a well-paying and rewarding career.

Community - Lac Seul First Nation

Science (Major), Geology (Minor), Bachelor of Arts, University of Manitoba

Education - Science (Major), Geology (Minor), Honours Program, University of Western Ontario Masters Candidate

High School Course Requirements - Geology, Science, English, Geography

Potential Earnings - \$40,000 - \$90,000 +

See more Role Models and Stand-Out Students at:
www.ofntsc.org
www.firstnationcareers.com

Asst. Technician, Blaster, Biologist, Crusher Operator/Mechanic, Driller, Electrician, Exploration, Environmental Technician/Engineer/Manager, Equipment Operator, Geologist, Geochemist, Geophysicist, Geophysical Engineer, Human Resources, Hydrologist, Information Systems, Industrial Hygienist, Mine Manager, Maintenance Planner, Mechanic


Technical Youth Career Outreach Project (TYCOP)
Career Guide For Students

SCIENCE
TECHNOLOGY

Career Guide


Technical Youth Career Outreach Project

Quiz - Future Forecast!




Technical Youth Career Outreach Project


OFNTSC Student Awards



Technical Youth Career Outreach Project (TYCOP)

Role Model Engineering






"I knew I wanted a career with great opportunities, challenges, excitement and that could teach me strong technical skills that could benefit society. My favourite part of studying Engineering was learning how technology and infrastructure work, and developing solutions to issues. Engineering design can bring relief to our First Nation communities in need - especially in housing and water issues."

Joseph Wabegijig
Civil Engineering Technician
Community - Wikwemikong First Nation

Education

- Civil Engineering, B.Eng., Lakehead University
- Civil Engineering Diploma, Algonquin College
- Construction Engineering Technician Diploma, Algonquin College
- Home & Building Automation Technician Diploma, Fleming College

"Energy is vital to the province of Ontario. The Energy and Power field provides an opportunity for employees to continually develop and grow both personally and professionally. First Nation students studying and working in Energy and Power can bring their knowledge forward to help communities. Education is an investment, in yourself and your future."




Sharon McGuire
Engineering / Applied Science Trainee
Ontario Power Generation

Community - Gull Bay First Nation

Education - Honours Chemical Engineering, Co-Operative Program, Bachelor of Applied Science, University of Waterloo


Technical Youth Career Outreach Project

External Resources / Helpful Websites




Technical Youth Career Outreach Project (TYCOP)

Hints and Tips



Technical Youth Career Outreach Project

Engineering



About: Engineers make things happen. They use science, math, innovation and problem solving for useful purposes and to meet the needs and demands of the community, project, and environment. All types of engineers are in high demand for First Nations because of their highly specialized expertise.

Engineering Skills/Interests:

- Math
- Logic
- Analytical
- Inquisitive
- Listening
- Technical knowledge
- Communication
- Attention to detail
- Problem Solving
- Creativity

Engineering Approximate Earnings

Engineering Intern \$30,000-\$45,000+	🪙
Engineer I-IV \$45,000-\$80,000+	🪙🪙
Senior Engineer \$80,000-\$100,000+	🪙🪙🪙
Engineer Project Manager \$80,000-\$110,000+	🪙🪙🪙🪙

*Approximate Career Earnings 0-30 years+
Salary.com, payscale.com

Helpful High School Courses:
Math, Science, Computer, Technical Courses, English

Career Opportunities:
Applied Engineering, Bio Systems Engineers, Chemical Engineers, Civil Engineers, Electric Engineers, Environmental Engineers, Materials Science Engineers, Mechanical Engineers, Business, Management, Logistics, Bioenergy, Food Safety, Ecosystems, Planning, Designing, Construction, Urban Development Specialist, Sustainable Developer, Aerospace Engineer

Career Tip #1:
Start your job search before you graduate; stand out with volunteer experience and extra-curricular activities.

Role Models

Wikwemikong

Lac Seul

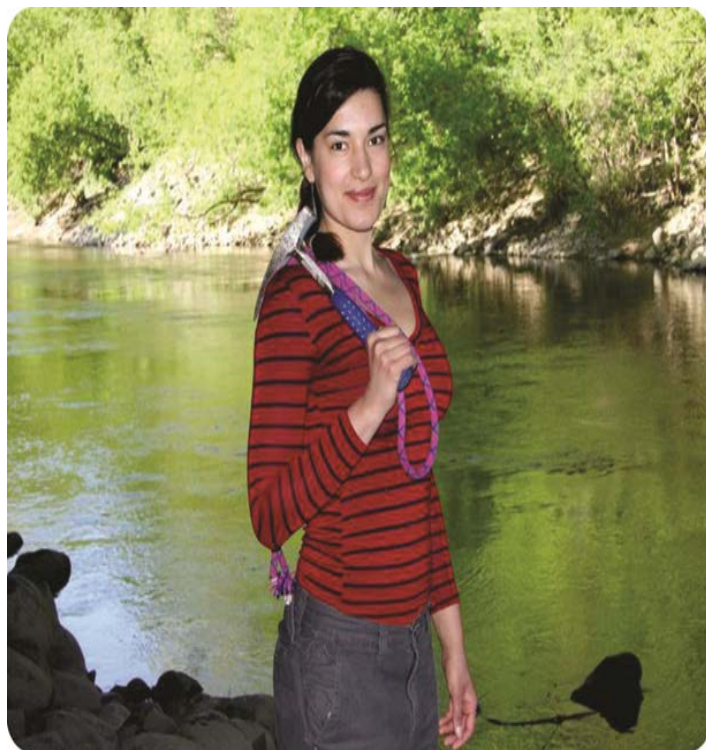
Gull Bay

Sagamok

Six Nations

Tyendinaga

Mattagami



Nipissing

Fort Albany

Saugeen

Chippewa of the Thames

Garden River

Kashechewan

Whitefish River

Participating Organizations & Companies



Fort Albany
Power Corporation



Promotional Items



Contact

Technical Youth Career Outreach Project (TYCOP)



See more Role Models, nominate someone, check out Student Awards and Bursaries and more at:



First Nation Careers



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firstnationcareers.com



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