



Indigenous.Link

Canada's fastest growing Indigenous career portal, Careers.Indigenous.Link is pleased to introduce a new approach to job searching for Indigenous Job Seekers of Canada. Careers.Indigenous.Link brings simplicity, value, and functionality to the world of Canadian online job boards.

Through our partnership with Indigenous.Link's Diversity Recruitment Program, we post jobs for Canada's largest corporations and government departments. With our vertical job search engine technology, Indigenous Job Seekers can search thousands of Indigenous-specific jobs in just about every industry, city, province and postal code.

Careers.Indigenous.Link offers the hottest job listings from some of the nation's top employers, and we will continue to add services and enhance functionality ensuring a more effective job search. For example, during a search, job seekers have the ability to roll over any job listing and read a brief description of the position to determine if the job is exactly what they're searching for. This practical feature allows job seekers to only research jobs relevant to their search. By including elements like this, Careers.Indigenous.Link can help reduce the time it takes to find and apply for the best, available jobs.

The team behind Indigenous.Link is dedicated to connecting Indigenous Peoples of Canada with great jobs along with the most time and cost-effective, career-advancing resources. It is our mission to develop and maintain a website where people can go to work!

Contact us to find out more about how to become a Site Sponsor.

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Job Board Posting



Careers.Indigenous.Link

Date Printed: 2024/05/08

Specialist, Mechanical Data Analytics

Job ID	77227-en_US-3397
Web Address	https://careers.indigenous.link/viewjob?jobname=77227-en_US-3397
Company	Canadian Pacific
Location	Calgary, AB
Date Posted	From: 2020-01-30 To: 2050-01-01

Description

- Req ID: 77227
- Department: Mechanical Loco
- Job Type: Full-Time
- Position Type: Non-Union
- Location: Calgary, Alberta
- Country: Canada
- % of Travel: 20-30%
- # of Positions: 1
- Job Grade: 4
- Job Available to: Internal & External
- Deadline to apply: 03/07/2020

Canadian Pacific is a transcontinental railway in Canada and the United States with direct links to major ports on the west and east coasts, providing North American customers a competitive rail service with access to key markets in every corner of the globe. CP is growing with its customers, offering a suite of freight transportation services, logistics solutions and supply chain expertise. Visit cpr.ca to see the rail advantages of CP. **PURPOSE OF THE POSITION:** The role will require use of operational data from mechanical locomotive, safety, and regulatory to support the development of a big data expert system. The role will work with a team of analysts, engineers and mechanics to address the root causes and create predictive solutions to address locomotive failures and locomotive operations. The results of these analyses may also be used to enhance the expert system in order to improve safety, increase operational efficiency, perform preventative maintenance, create predictive models and assist in asset repair management strategies specifically relating to locomotives. **POSITION ACCOUNTABILITIES:**

- Support mechanical locomotive operations, troubleshooting, repair process and investigation.
- Develop new business and operating rules based on locomotive data analysis, key findings and root causes drill down;
- Create task lists, repair recommendation and other forms of direction to turn detected problems into actionable alerts
- Assist in the development of an expert system including data collection, transmission, storage, analysis and user interface
- Participate in shop training, operations, repair processes and troubleshooting of locomotives to better familiarize with shop practices.
- Support business case developments for new technology purchases and/or process integrations based on data analysis results to improve mechanical reliability, railway safety and efficiency;
- Coordinate the implementation and installation of such technologies.
- Propose new processes and technologies to enhance investigation data retrieval and processing capabilities to increase productivity;
- Define requirements and work with IT staff to incorporate all technological changes;
- Utilize vast quantities of wayside detector, locomotive, operating, repair, and incident data sources to develop value adding machine learning models and processes.
- Adhere to Canadian Pacific's health and safety policy;
- Support weekend requests for immediate analysis.

POSITION SKILLS:

- Ability to perform process large amounts of data;
- Experience using data analytics programming languages such as Python, R, Matlab, Tensorflow, SQL
- Experience with CAD, FEM or other mechanical modeling software
- Ability to develop business rules, create machine learning models and incorporate these technologies into the business to improve safety and operational efficiency;
- Ability and drive to drill down to determine root causes of service failure using data and in-shop investigations to implement corrective action efficiently;
- Ability to support and independently manage multiple projects;
- Ability to produce requirements for existing IT systems such that they can be improved;
- Willingness to learn how to submit Investment Funding Requests to improve systems and purchase new technologies which increase productivity;
- Willingness to cross-train and learn multiple field positions to enhance qualifications;

POSITION REQUIREMENTS:

- Must hold a Bachelors/Masters/ or PHD degree in the engineering, mathematical, or computer science fields from an accredited college or university;
- Must be able to write clear and concise reports which will be distributed to high level management;
- Experience with engines and large machinery
- Background in mechanical systems

- Experience with data analytics software such as:
- Must have a minimum of 2-3 years' experience in industry implementing data mining and machine learning concepts OR evidence of school project work in data analysis;
- Must hold a full stage Class 5 driver's permit;
- Must hold a Canadian Passport;
- Must be eligible to register as an EIT, P.Eng or other education specific applicable designations;
- Must be willing to travel up to 20% annually and is eligible to travel to the United States and Mexico.

WHAT CP HAS TO OFFER:

- Flexible and competitive benefits package
- Competitive company pension plan
- Employee Share Purchase Plan
- Performance Incentive Program
- Annual Fitness Subsidy

ADDITIONAL INFORMATION:As an employer with national presence, the possibility does exist that the location of your position may be changed based on organizational requirements. **Background Investigation:**The successful candidate will need to successfully complete the following clearances:

- Criminal history check
- Reference check

Management Conductor Program:Becoming a qualified conductor or locomotive engineer is the single best way for a management employee to learn the business at CP. You may be required to obtain a certification or to maintain your current certification/qualification as a conductor or locomotive engineer. CP is an equal opportunity employer committed to the principles of employment equity and inclusion. We welcome applications from all qualified individuals. All applicant information will be managed in accordance with the federal Personal Information Protection and Electronic Documents Act ("PIPEDA").

For more information, visit Canadian Pacific for Specialist, Mechanical Data Analytics