

## Pario Engineering & Environmental Services – Mechanical Forensic Engineer (Accident Reconstruction)

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**Business Unit** PARIO Engineering and Environmental Services

**Region** Central

**Location** Toronto

**Province** Ontario [ON]

**City/Ville** Toronto

**Position Title/Titre du poste** Mechanical Forensic Engineer (Accident Reconstruction) - Toronto

**Job ID/ID Travail** 4770

### Role Summary

**GTA for this position will be from Oshawa to London to St. Catherines.**

**Pario Engineering and Environmental Services** is an equal opportunity employer with a 20 year history known for their high quality expert reports and services. We are currently looking for a high energy individual willing to learn new or build on their existing discipline(s) with the goal of becoming a leading expert witness to the insurance and legal industries.

Motor Vehicle Accident Reconstruction, Personal Injury Analysis, Mechanical Failure Analysis

### Responsibilities

- Conduct site investigations – Proficiency in Photography (day and nighttime), Measuring and Surveying.
- Knowledge and proficiency in the use of test equipment for site investigations such as brake testing, curve acceleration testing, visibility (day/night) testing and Slip Testing Equipment in the case of slip and fall accidents.
- Conduct vehicle (automobile, motorcycle, heavy truck, off-road), assess and measure/survey the exterior damage, examine and assess the vehicle restraint systems, able to download and analyze vehicle crash data. Knowledge of vehicle and truck braking systems in addition to steering/suspension systems etc.
- Conduct machinery failure investigations – Investigate the design, safety and failure on all types of mechanical equipment, plumbing systems, and common household products.
- Proficiency with laboratory testing procedures such as optical microscopy, scanning electron microscopy, hardness testing and microstructure analysis is an asset
- Ability to review and summarize witness information.
- Perform research into vehicle, roadway, machinery issues dealing with the loss in question.
- Have knowledge and proficiency in Human Factors, Injury Analysis, Road Design, and Road Maintenance.
- Investigate and evaluate safety standards and compliance to various international and North American codes and standards.
- Perform calculations and computer analysis, including proficiency in computer crash simulation programs such as PC-Crash, HVE. Computer skills with spreadsheets, word processing and presentation software is a must. Computer aided drawing skills is a plus.
- Provide unbiased technical expert opinions for various types of clients.

**Education, knowledge  
and experience  
required**

- Provide technical findings and conclusions in laymen's terms, both verbally and in writing.
- Support conclusions by appropriate testimony as an expert f
- Experience in the Insurance Industry is a MUST.
- A major component of the position is to create and maintain personal client relationships. The candidate must be comfortable with developing their own client business by attending industry events, presenting papers and services to clients and the industry. An eagerness to meet new people and make introductions are necessary.
- Be a licensed Professional Engineer in the Province of Ontario.
- Minimum of five (5) or more years of engineering experience preferably in forensic engineering, transportation, biomechanics and/or with automobiles.
- Experience in forensic engineering or accident reconstruction services
- Strong written and verbal communication skills
- Problem solving skills
- Possess a Bachelor's Degree in Engineering (Mechanical, Civil, Transportation) or Material Science.
- Registered with the Professional Engineers of Ontario (PEO)
- Have taken relevant courses, possess certification(s), and be affiliated with associations in the respective fields