



## FORENSIC ANALYSES

- Structure Fire and Explosion Investigations
- Chemical and Materials Analysis
- Structural Failure Assessment
- Process Failures
- Mobile Equipment Fires
- Water Damage & Pipe Fractures
- Injury Biomechanics
- Corrosion Analysis
- Electrical and Equipment Failures
- Collision Reconstruction
- Consumer Product Failures
- Carbon Monoxide Poisoning
- Vehicle Fires
- Electronic Data Analysis
- Dust Hazard Assessment
- Industrial Process Assessment
- Fire Dynamics and Modelling
- Regulatory Compliance

## FIRE PROTECTION SYSTEMS

- Clean/Gaseous Agent Systems
- Fire Alarm System Design and Failure Analysis
- Inadvertent Sprinkler Discharge
- Kitchen Hood Suppression System Operation



## JENSEN HUGHES

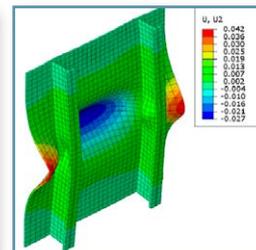
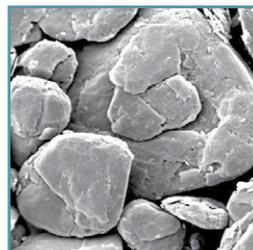
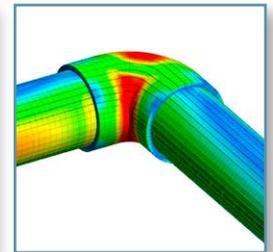
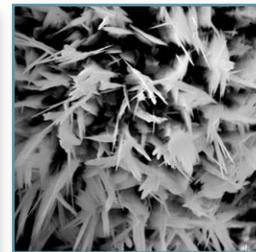
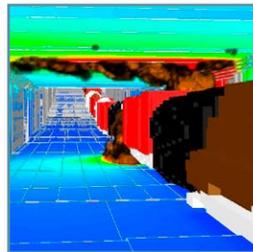
Advancing the Science of Safety

JENSEN HUGHES is the consultant of choice for complex investigations and in-depth forensic analysis. We manage large-loss investigations, collect, preserve and test evidence, liaise with authorities, develop computer simulations of events to validate hypotheses and coordinate with outside experts, laboratories and consultants. We focus on delivering scientifically based analysis in a clear and timely manner.

- Fire & Explosion Investigations
- Collision Reconstruction
- Chemical and Materials Analysis
- Process Failures
- Fire Protection System Analysis
- Dust Hazard Assessment
- Fire Spread Analysis
- Code Analysis & Application
- Electrical and Equipment Failures
- Water Damage & Pipe Fractures
- Product Safety
- Structural Failure Assessment
- Research and Testing
- Injury Biomechanics

Our investment in research in all of our practice areas enhances our knowledge of emerging and technical issues and sets the industry standard for scientific analysis. Our diverse team is able to provide field investigation, analysis in our fire, chemical, dust and metallurgical labs, and engineering simulation using modern fire, explosion, accident, CFD, and FEA computer models.

JENSEN HUGHES is a dynamic team with backgrounds in fire, chemical, structural, mechanical, materials and electrical engineering that offers a breadth of services and comprehensive expertise that enables our clients to make informed decisions.





# Inspect • Evaluate • Analyze • Inform

National and international clients come to JENSEN HUGHES for expert investigations for all types of event and failure scenarios. We are respected for our thorough scientific analysis and experience in meeting the investigative requirements of insurance, corporate, legal and government clients. With 7 offices across Canada and over 70 offices worldwide, JENSEN HUGHES can provide clients timely site attendance by trained staff regardless of the incident location and complexity.

## Fire Origin and Cause Analysis

Our technical approach has been proven over many years and thousands of fires, related to industrial, commercial, residential, vehicle and marine cases. JENSEN HUGHES professionals are trained and experienced in analyzing the origin and cause of fires, even in the most complex circumstances.

## Fire Spread Analysis

We are experts in analyzing fire growth and spread and identifying contributing factors, such as building configuration, construction materials, ventilation, and relating those factors to compliance with applicable codes and standards. We can evaluate fire spread hypotheses using our extensive computer modelling capabilities.

## Regulatory Compliance

Drawing on our comprehensive library of current and historical codes, standards and related documents, we analyze a buildings design and construction history and its compliance to the applicable building and fire codes over time. This provides a baseline for determining the expected performance of a building in the event of a fire.

## Failure Assessment

A failure assessment can inform insurers and authorities, and help prevent reoccurrences. Fault tree analysis is one methodology we use to identify contributing factors, and our experienced professionals provide clear and comprehensive assessments.

## Material Testing and Hazard Evaluations

JENSEN HUGHES has extensive in-house laboratory and testing capabilities. We offer a variety of chemical, materials, and metallurgical testing services that form an integral part of our forensic work. Hazard evaluations are regularly completed as a fundamental part of our investigations to identify root causes and develop process safety solutions to effectively manage risk at your facility. JENSEN HUGHES has established the only commercial dust explosibility test laboratory in Canada.

## Collision Reconstruction, Vehicle Forensics, and Injury Biomechanics

Our team performs detailed accident investigations, including fire, slip, trip and fall investigations and Biomechanical Injury assessments over a diverse environment of vehicles, equipment and industrial or commercial settings.

## Expert Litigation Support

JENSEN HUGHES provides litigation support for a broad spectrum of matters, ranging from explosions to the performance of consumer products and fire protection systems. Our expansive background in a wide range of engineering disciplines gives us an unparalleled depth of technical expertise in litigious issues that require expert support.

### CANADIAN OFFICES:

#### Vancouver

228 - 1195 West Broadway  
Vancouver, BC V6H 3X5  
T 604 732 3751

#### Richmond

135 - 13900 Maycrest Way  
Richmond BC V6V 3E2  
T 604 295 4000

#### Calgary

106 - 5855 9 Street SE  
Calgary AB T2H 1Z9  
T 403 984 5800

#### Edmonton

3419 - 10180 101 Street NW  
Edmonton AB T5J 3S4  
T 780 800 3399

#### Toronto

100 - 2150 Islington Avenue  
Toronto, ON M9P 3V4  
T 416 762 3808

#### Ottawa

1139 - 343 Preston Street  
Ottawa, ON K1S 1N4  
T 343 700 3325

#### Halifax

705 - 5657 Spring Garden Road  
Halifax, NS B3J 3R4  
T 902 701 3877