

FAILURE ANALYSIS

Industrial forensic inquiry into failed components, products, and systems



RJ Lee Group's experts perform root cause failure analysis to identify issues throughout all stages of the product's life cycle, helping the client find a remedial plan of action. Focusing on materials characterization, our multi-disciplinary scientific staff works with clients across all industrial sectors, supported by a full-service characterization laboratory.

From production to development to operation in the field, we conduct industrial forensic inquiries into failed components, products, and systems, relaying results so the client has a thorough understanding of how and why a component or product failed. Our experts then recommend corrective and preventative actions to reduce future risk of failure and to optimize performance.

Our failure analysis skill sets include metallurgy, concrete, glass, electronics, corrosion, welding, and specialty chemicals and coatings.

We also serve as a third-party laboratory to provide objective evaluations of warranty claims. For more information, call us today at 1.800.860.1775.



Case Studies

INDUSTRY: CONCRETE

A civil engineering firm hired RJ Lee Group to conduct analysis on a concrete viaduct that handled about 75,000 vehicles per day. Our experts provided information on the current state of the concrete, performed failure analysis, and provided an estimation of service life. We provided critical data for the engineering firm to generate and oversee repairs.

INDUSTRY: METALLURGY

A failed municipal water pipe caused a landslide, releasing fly ash materials into a drainage stream. Our investigation revealed the tons of cover material around the pipe caused stress to cause the crack, and the sudden release of this stress by the landslide caused the pipe to fail. The pipe was a victim of the landslide, not the cause.

Benefits of RJ Lee Group

- » Provides single-source information for informed decision-making
- » Wide network of experts
- » A vast array of specialized test equipment for both field and laboratory testing

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DELIVERING SCIENTIFIC RESOLUTION