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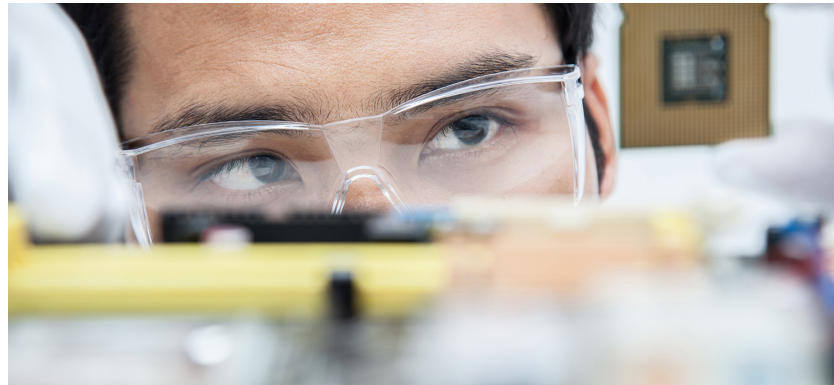
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## Analytical Services



*The APL leverages precision analytical tools to identify and decisively address production and field failures.*

- **Failure Analysis Services:** From die-level to enclosure-level; Provide evidence to support product liability cases or vendor returns
- **Reliability/Endurance Testing:** Measure performance versus governing standards (IPC, JEDEC, JIS); Achieve desired performance to reach critical metrics
- **Supplier Quality Testing:** Validate your supply chain to meet your requirements
- The APL's primary advantage over other analytical labs is that the results are delivered in the context of the process and materials used
- Root cause failure analysis (component packaging, second-level interconnect, handling, final assembly)
- Comprehensive analytical methods: Thermal Shadow Moiré (warpage analysis), Scanning Electron Microscope (elemental analysis), Cross-Sectional Analysis (defect identification), Fourier Transform Infrared (residue analysis)
- Materials evaluation (conformance, composition)
- Reliability testing (mechanical, environmental, vibration, drop shock)
- Leveraging expertise gained from years of process, materials, and reliability research
- Detailed technical reports to support findings
- *Mitigate/eliminate failures, from component-level to box build*
- *Maximize yields and field reliability, minimize costly rework*
- *Secure your brand reputation and improve your bottom line*

