



Corporate R&T Laboratories

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**FOR
A WORLD
THAT'S
ALWAYS ON™**

Corporate Research and Technology Laboratories

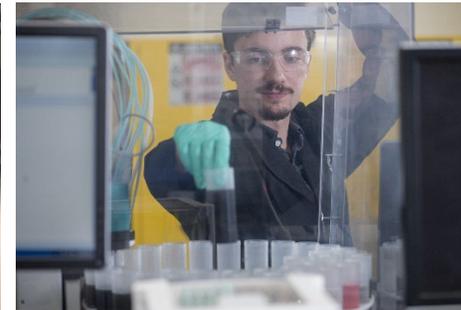
- The Cummins Research and Technology Labs investigate new technologies, develop new methods, and provide technical expertise in a wide variety of disciplines. These laboratories operate with Quality, Agility and Flexibility to produce high confidence testing and problem solving for Cummins evolving technologies.

- **Key Technical Disciplines Represented**

- Fluid Chemistry
- Metallurgy
- Tribology and Friction Studies
- Non-Destructive Evaluation
- Polymer Science
- Applied Mechanics
- Noise and Acoustics
- Advanced Manufacturing
- Fluid Dynamics
- Catalyst, Fuel Cell and Battery Technologies
- Mechanical System Efficiency
- Advanced Electronics Controls

- **R&T Laboratories**

- Provide Product Development Support and Technology Innovation for all Cummins Business Units
- Support New Research and Technology Initiatives as well as New Market Exploration
- Serve Global Regions through Engineering and Applied Science Competency Centers of Excellence



- Detailed technical descriptions for each lab found at: [Research and Technology Labs \(sharepoint.com\)](https://sharepoint.com)

R&T Laboratories Operational Focus

- **Operate with Quality, Agility and Flexibility to produce high confidence testing and problem solving**
 - Example – Use of Voice of Customer, Risk Analysis and Operations tools to determine solutions for evolving business strategies (All Labs)
- **Develop Innovative Measurement Methods that support evolving strategic direction**
 - Example – Incorporation of distributed fiber optic sensing into battery cells for temperature measurements (Applied Mechanics)
- **Transfer Knowledge and Technology into Cummins Business Units**
 - Example – Integration of X-Ray CT Scanning into Fuel Cell production line for plate defect detection (Non-Destructive Evaluation)

