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## **University of Windsor / FCA Canada Automotive Research and Development Centre**

### **Elastomer Characterization Laboratory**

- The laboratory is used to provide consistent, precise and quick development capability on the performance of the elastomeric components. A critical characteristic of any vehicle elastomeric component is its ability to compress and return to form under load. Some examples of tested parts include; engine mounts, powertrain mounts, cab mounts, suspension bushings and grommets. Characterization data is used in virtual/physical correlation, design development, competitive benchmarking, and reliability assessment.
- The Elastomer Characterization Laboratory currently has two test rigs (linear & rotary). They are used to measure static and dynamic frequency response in elastomeric components, covering the 6 individual degrees of freedom.

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