

New Engineering Services available from the AVRC

After nearly two years of development, the AVRC rolling Laboratory for Rapid Application Testing (LabRAT) will be completed and available to the Electric Vehicle and Energy Storage Industries for testing in July. Our proprietary data collection software, developed by [Cybermetrix Corp.](#), and the accompanying customized hardware will be installed before the end of June. Once complete, the LabRAT will offer a fast and accurate way to test electric vehicle drive-trains and energy storage systems in a real world environment. The platform can be quickly configured to give real chassis dynamometer results on any platform design from 2,000 lbs. GVW to 10,000 lbs. GVW.



The LabRAT can be quickly reconfigured to test a full range of motor and energy storage systems to give complete engineering data from motor speed and torque to battery pack performance, and even full testing on our dynamometer for pre-determined drive cycles. Speed, torque, range, and other data will be available for engineering review with less than a 24 hour turnaround. Reports will be available to show how your computer simulations compare to how the vehicle performs in real world conditions.

This is a significant step beyond computer simulation, and the quick re-configurability will allow for faster and more accurate validation of your vehicle drive-train, batteries and the desired performance.

During our trial period from July to October, we will provide validation testing for a limited number of clients. We will test your motor and/or energy storage system at no charge in exchange for the donation of your motor and/or energy storage system for testing. (Additional parts to adapt your product that may need to be fabricated will be done so at cost). Complete engineering and electric vehicle drivetrain design services are offered by the AVRC. Our Chief Scientist is Dr. Yimin Gao, co-author of the definitive textbook on the subject of EV design- "Modern Electric, Hybrid Electric, and Fuel Cell Vehicles".

If you are interested in this limited time opportunity please contact us at LabRAT@avrc.com or call Richard Dell Jr., Program Manager, at 919-602-4784.