



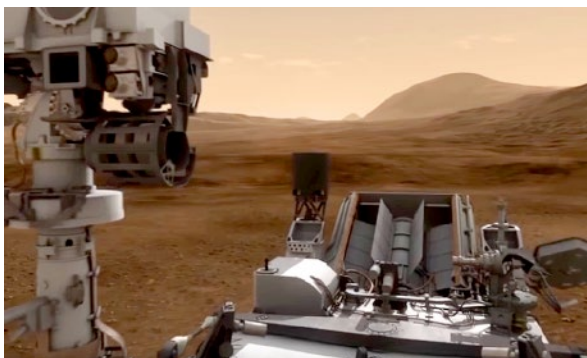
ENERGY



ENERGY GENERATION, MANAGEMENT and STORAGE

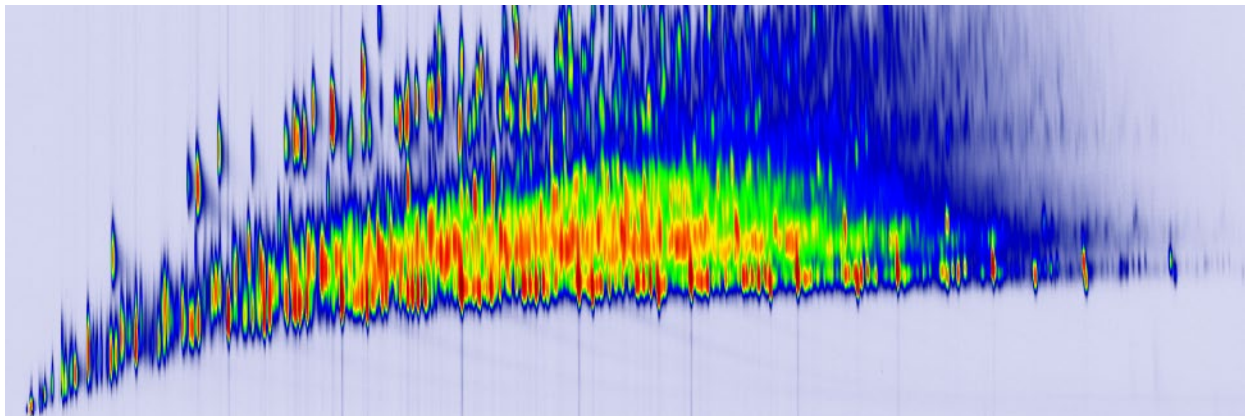
Full service research, development, testing and evaluation of energy and power technologies, materials and solutions

Our scientists and engineers conduct all aspects of research, development, testing and evaluation of power and energy technology. This includes a wide range of power technologies, power management systems/ protocols, energy storage and energy related materials. We provide deep subject matter expertise that can be relied upon for practical and novel solutions to power and energy needs.



AREAS of EXPERTISE

- **RENEWABLE POWER**
solar, wind, geothermal, waste-to-energy
- **BATTERY TECHNOLOGIES**
Li-Ion, solid state batteries
- **POWER MANAGEMENT**
microgrids, hardware-in-loop testing
- **AEROSPACE POWER SYSTEMS**
- **NUCLEAR POWER FOR SPACEFLIGHT**
- **GROUND SUPPORT EQUIPMENT FOR AIRCRAFT**
- **ENERGY TECHNOLOGY ANALYSIS AND SIMULATIONS**



FUELS and COMBUSTION SCIENCE and ENGINEERING

Full service research, development, testing, and evaluation of fuels, combustion science, emissions and fire safety

Since 1976, UDRI has been developing and testing cleaner burning, more environmentally friendly, and more powerful fuels. Our work includes fuel testing and certification, modification of fuels for specialized needs, emissions from open burns in forest fires and other accidental fires, specialized material development for energetic propulsion, combustion science and fire safety science/fire safe material development.



AREAS of EXPERTISE

- JET TURBINE FUEL DEVELOPMENT, TESTING AND CERTIFICATION
- COMBUSTION SCIENCE engines, hypersonics, shock tube research
- MATERIAL DECOMPOSITION EMISSIONS hazardous and toxic wastes
- FUEL DEVELOPMENT FROM ALGAE
- FUEL DESULFURIZATION
- OPEN BURN EMISSIONS forest fires, fields, and incineration
- NOVEL ENERGETIC MATERIAL DEVELOPMENT AND TESTING
- FIRE SAFETY SCIENCE, FIRE SAFE MATERIAL DEVELOPMENT AND TESTING