



SOUTHWEST RESEARCH INSTITUTE



International Alternative Fuel Technology Center

Southwest Research Institute® (SwRI®) has launched a collaborative effort to help our clients address tightened emissions standards and the growing importance of developing alternative fuels to reduce dependence on fossil fuels. The formation of the International Alternative Fuel Technology Center (IAFTC) at the SwRI facilities in San Antonio, Texas, will maximize SwRI's decades-long experience in fuels.

The IAFTC draws from a variety of disciplines at SwRI to offer all alternative fuels capabilities under one umbrella, providing original equipment manufacturers, fuel manufacturers and lubricant companies a comprehensive approach to resolve their technical challenges. The new Center will assist clients in exploring, developing and evaluating current and future alternative fuels from source, through production, to real-world use.

Capabilities

With more than 60 years of experience in automotive research and development, SwRI is recognized as an international expert in the research, development and testing of renewable fuels such as cellulose waste materials, biofuels and synthetic paraffins. The staff has extensive knowledge of preparing and analyzing conventional and alternative fuels, fluids and lubricants, and will blend field experience, engineering and chemistry expertise with design and fabrication capabilities to offer an interdisciplinary approach to fuel-related services.

Dedicated engineers, scientists and technicians bring extensive experience in all facets of alternative fuels research and development to each project, including:

- Alternative fuel production and formulation
- Biodiesel development, analysis and evaluation
- Aviation fuel development and testing



Vacuum distillation test for biodiesel samples



Fuel upgrading demonstration plant

Projects regularly conducted include:

- Fuel registration and emissions testing
- Fuels performance evaluations
- Fuels applications testing and evaluation
- Fleet and field evaluations

SwRI conducts chemical analyses of fuels, lubricants, and additives.

Facilities

SwRI's laboratories are outfitted with state-of-the-art instrumentation and equipment to perform fluids analysis safely and efficiently. Process technology capabilities include a Fuels Processing Center with pilot plants able to produce drum quantities, custom laboratory-scale pilot plants, and analytical support to provide quantitative and qualitative analyses. Emissions testing encompasses both light-duty and heavy-duty engine testing.

Quality Accomplishments

The Office of Automotive Engineering (OAE) at SwRI is certified to ISO 9001:2008, "Quality Management Systems – Requirements," accredited to ISO/IEC 17025:2005, "General Requirements for the Competence of Testing and Calibration Laboratories," and certified to ISO 14001:2004, "Environmental Management Systems." The OAE has also achieved Ford Tier 1 status for providing engineering services and the Engine, Emissions and Vehicle Research Division has received the Ford Q1 Quality Award. In addition, the Petroleum Products Research Department is a Nuclear Procurement Issues Committee (NUPIC)-approved laboratory and the Fuels and Lubricants Research Division has maintained its status as an American Chemistry Council (ACC)-approved laboratory.

We welcome your inquiries.
For more information, please contact:

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Seal compatibility testing



INTERNATIONAL
ALTERNATIVE FUEL
TECHNOLOGY CENTER

A Program of SwRI

SOUTHWEST RESEARCH INSTITUTE

Southwest Research Institute is a premier independent, nonprofit research and development organization using multidisciplinary services to provide solutions to some of the world's most challenging scientific and engineering problems. Headquartered in San Antonio, Texas, our client-focused, client-funded organization occupies 1,500 acres, providing more than 2.3 million square feet of laboratories, test facilities, workshops, and offices for more than 2,700 employees who perform contract work for government and industry clients.

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