



Technology Transfer at NETL

Carbon capture, quantum mechanical simulations, integrated gasification, and clean power: words like these instill enthusiasm in National Energy Technology Laboratory (NETL) in-house researchers because they describe the future of energy. And, as technology transfer professionals who gather cutting-edge inventions to present a wide energy research portfolio, we find the excitement contagious.

Facilities and Capabilities

As a federal laboratory, we welcome the opportunity to build mutually beneficial partnerships with industry, entrepreneurs, and other agencies. From nanotechnology and computer modeling to bench-scale testing and large-scale industrial process improvements, our laboratory has established a reputation for quality research and innovation.

Working with NETL has many benefits. Our three state-of-the-art research sites located in Oregon, Pennsylvania, and West Virginia offer a wide range of facilities and capabilities with research in areas like hydrogen and clean fuels; oil and natural gas; coal and power systems; carbon capture, utilization, and storage; alloy development; and performance testing.

NETL is one of the few places in the world where research in all of these areas can be conducted at one laboratory. Additionally, NETL researchers work side-by-side with researchers from NETL's site-support research contractor and colleagues from our university research partners, which significantly bolsters our Laboratory's federal, industrial, and academic expertise in energy research.

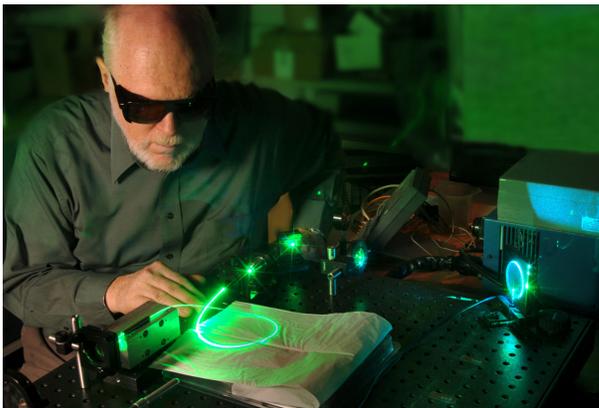


Figure 1. Real-Time Raman Gas Composition Analyzer.

NATIONAL ENERGY TECHNOLOGY LABORATORY

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U.S. DEPARTMENT OF
ENERGY

Technology Transfer Mechanisms

We want to see these technologies reach the commercial marketplace, and we utilize a variety of mechanisms to help make this happen. Licenses, cooperative research and development agreements (CRADAs), contributed funds agreements, memoranda of understanding, and non-disclosure agreements are a few examples. CRADAs offer attractive intellectual property provisions such as joint intellectual property ownership and an exclusive license option. Our license royalty structures are created with the ultimate goal of effectively commercializing federally funded technologies. And, as a government laboratory, our researchers are automatically obligated by law to protect your proprietary information as well as agreement-generated data.

Teaming together through partnerships will help solve our nation's energy challenges while giving the United States a competitive edge in global competition. Visit NETL's Available Technologies page at <http://www.netl.doe.gov/business/tech-transfer/available-technologies> and join us in our mission to foster innovation!



Figure 2. An NETL/Boston Scientific-developed platinum/chromium alloy is highly x-ray visible and has an improved physical property for producing better human coronary stents (image courtesy of Boston Scientific).



Figure 3. NETL has licensed one of its patented CO₂-removal sorbents to small business enVerid Systems. enVerid has adopted the sorbent for use their retrofit air-recirculation system, designed to increase the energy efficiency of commercial HVAC systems.

