



GTI

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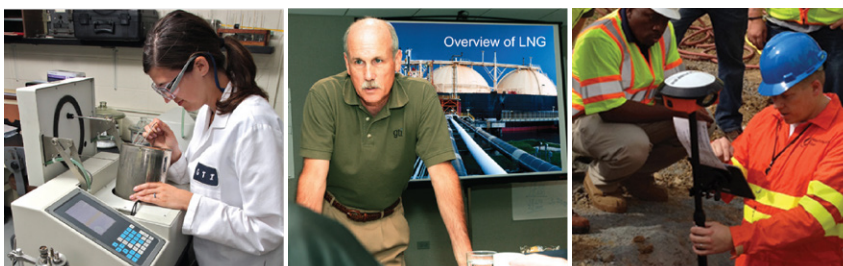
SOLVING IMPORTANT ENERGY CHALLENGES AND CREATING VALUE IN THE MARKETPLACE

GTI is the leading research, development and training organization addressing energy and environmental challenges to enable a secure, abundant, and affordable energy future. For more than 75 years, we have been providing economic value to the natural gas industry and energy markets by developing technology-based solutions for industry, government, and consumers.



WHAT WE DO

- **Research and Development.** With a reputation for achieving market results, R&D efforts at GTI are customer-driven initiatives that focus on securing an economic, reliable, and clean energy future.
- **Program Management.** GTI brings together the right team to support key technology initiatives. Through our collaborative R&D programs, we offer unique opportunities to optimize research funding.
- **Technical Services.** By leveraging our expertise at our state-of-the-art laboratories and test facilities, we offer the capability to perform hundreds of standardized and custom tests.
- **Analytical Services.** Our knowledge-based services use several models and approaches assessing technical markets, benefits, feasibility, and regulatory implications to understand and address energy challenges.
- **Consulting.** GTI experts help companies accomplish strategic performance objectives through analysis of existing business and technology issues, developing improvement plans, and providing litigation support.
- **Commercialization.** Through a variety of business arrangements, GTI provides the expertise and support needed to bring new energy-related technology to market.
- **Training.** GTI offers training programs in gas distribution and transmission, utilization technology, LNG, and exploration and production. Training options include classroom courses, e-learning, and on-site programs.



OUR STAFF

400+ employees



LOCATIONS

GTI HQ: 18-acre campus in metro Chicago (10 minutes from O'Hare Airport)



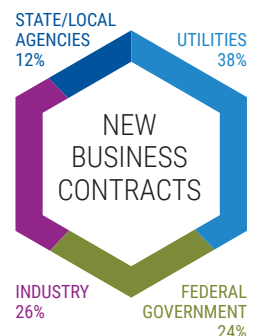
GTI Office

GTI Subsidiaries
FRONTIER energy

2019 BUSINESS HIGHLIGHTS





17 U.S. patents issued

39 foreign patents issued



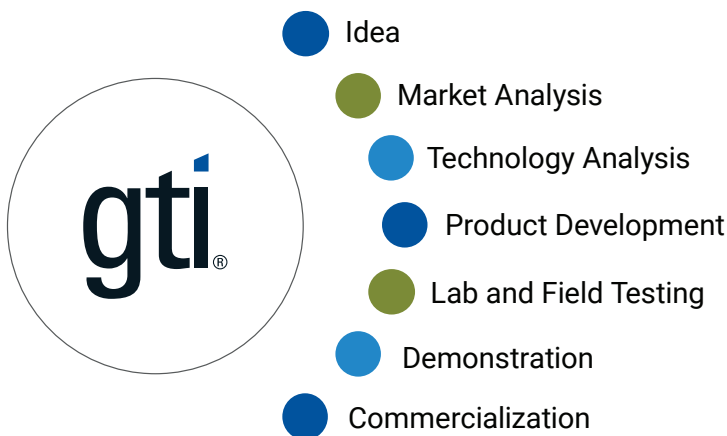
NEW BUSINESS CONTRACTS

EXPERTISE THAT ALIGNS WITH THE VALUE CHAIN

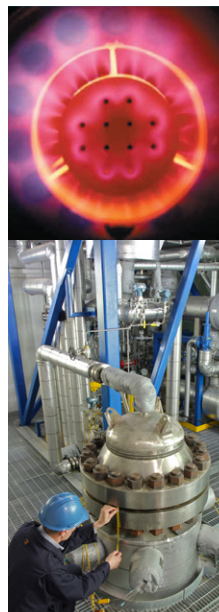
SUPPLY	CONVERSION	DELIVERY	UTILIZATION
 <p>Expanding the supply of clean, abundant, and affordable natural gas and renewable energy</p> <ul style="list-style-type: none"> Hydraulic fracturing efficiency Reservoir characterization Well construction and completion Produced water management Liquefied natural gas (LNG) Unconventional natural gas and oil Hydrogen 	 <p>Transforming natural resources into clean fuels, power, and chemicals</p> <ul style="list-style-type: none"> Gasification process development Integrated biofuels technology R&D Syngas generation and processing Natural gas and syngas cleanup and separation technologies Subquality gas upgrading Carbon management Chemical research services 	 <p>Ensuring a safe and reliable energy delivery infrastructure</p> <ul style="list-style-type: none"> Data integrity and risk management Infrastructure rehabilitation and improvements Environmental matters, enabling renewable gas, and gas quality Smart utility information technology tools Materials and analytical testing Methane emissions, monitoring, mitigation, and reduction 	 <p>Promoting the clean and efficient use of energy resources</p> <ul style="list-style-type: none"> Residential/commercial appliances, equipment, and building systems Industrial process heat and steam Power generation and combined heat and power Alternative transportation fuels Full-fuel cycle measures of energy use Natural gas-solar thermal hybrid equipment Renewable natural gas and gas quality

WORKING WITH OUR CUSTOMERS

For decades, we have been recognized as a valued partner providing research programs that lead to emerging technologies across market sectors and service at every phase of the technology development cycle, from concept to commercialization.



MAKING AN IMPACT



- Leading Hydraulic Fracturing Test Sites (HFTS) program to enable unconventional gas production with fewer environmental impacts and increased recovery rates
- Invented IH²® technology to convert biomass into transportation fuels
- Managed Clean Fuels Across Chicago initiative, deploying 400 clean vehicles and 225 alternative fueling stations
- Developing methodologies for determining failure mechanisms in pipelines

500+ products | **750+ licenses** | **1,300+ patents**