



# Environmental Friendly Drilling Program

The Texas Center for Applied Technology (TCAT) is a focus for multi-disciplinary test and evaluation within The Texas A&M University System. A non-academic technology transfer center within the Texas A&M Engineering Experiment Station, the engineering research agency for the state of Texas, TCAT has successfully managed test and evaluation programs for energy, water, environmental, and military programs. Our clients include a wide variety of customers: federal, state, and local governmental agencies; university researchers, and industrial partners; commercial companies; and land management and planning groups.

The Texas A&M University and Houston Advanced Research Center (HARC), along with industry sponsors and stakeholders (NGO's, government agencies, others) operate the **Environmentally Friendly Drilling Systems Program**



integrating advanced technologies into systems that significantly reduce the impact of petroleum drilling and production in environmentally sensitive areas. The team focuses on technologies that reduce the environmental and societal tradeoffs associated with the development of energy sources. The objective is to identify, develop and transfer critical, cost effective, new technologies that can provide policy makers and industry with the ability to develop United States domestic reserves in a safe and environmentally friendly manner.

## CURRENT SPONSORS

Research Partnership to Secure Energy for America (RPSEA)

BP

Chesapeake Energy

Chevron

Devon Energy

ExxonMobil

MI Swaco

Newpark Mats

National Oilwell Varco (NOV)

Huisman

KatchKan

Scott Environmental Services

Gulf Coast Green Energy

Hess

Tenaris

Basin Engineering

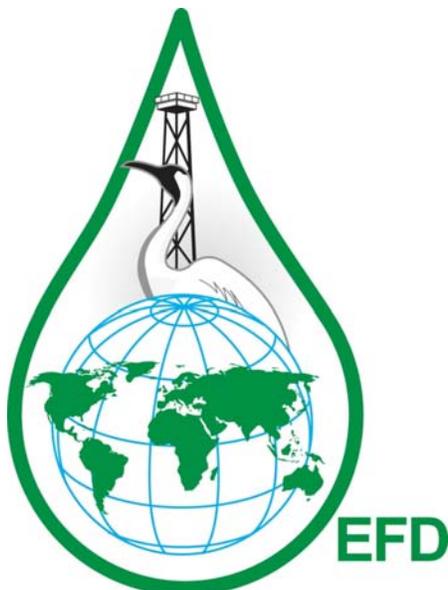
CSI Technologies

USLL

Wyoming Composites, LLC

NYSERDA

Shell



## TEXAS CENTER FOR APPLIED TECHNOLOGY

There are many problems that require the careful and proper integration of applied technologies to find solutions. The Texas Center for Applied Technology (TCAT) was created to focus on these specific problems and to develop effective and efficient solutions. TCAT's core competency is the innovative application of existing technologies and advanced research to solve complex real-world problems.

TCAT's primary objective is to apply and test technologies to address targeted problems and engage basic research as required. TCAT has employees in a variety of locations with the ability to perform research that cuts across multiple technologies, disciplines, and cultures. The Center's employees are knowledgeable regarding customers' requirements and are ready to respond effectively to provide the best value for the customers' needs including expertise in technology insertion, technology assessments, and test and evaluation.

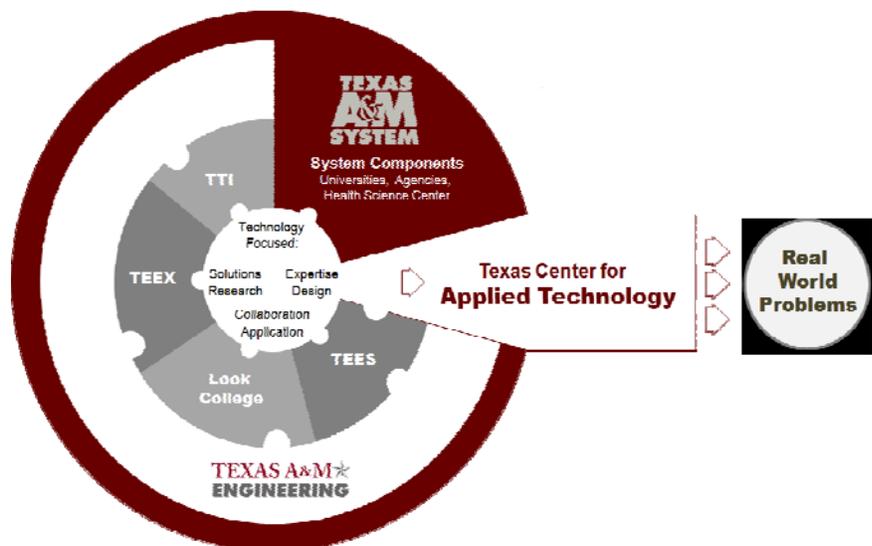
TCAT is part of the Texas A&M Engineering Experiment Station (TEES), a member of The Texas A&M University System. The A&M System is one of the largest and most comprehensive systems of higher education in the United States. Through a statewide network of eleven university campuses, seven state agencies, and a comprehensive health science center, the A&M System educates more than 120,000 students on its university campuses, conducts more than \$780 million in research, and reaches another 22 million people through service each year. TEES is an engineering research agency for the state of Texas and conducts over \$147 million in research annually. Because of the Center's position within the Texas A&M Engineering program, TCAT's expertise can easily be extended by rounding out its team with world class faculty researchers, as appropriate. TCAT is in an excellent position for collaboration not only with The Texas A&M University System components and their customers but with other universities, institutions, centers, and industry.

## TCAT'S CORE COMPETENCIES

Energy Sustainability ★ Environmental Sustainability  
Manufacturing & Systems Engineering ★ Information Technology ★ Modeling & Simulation  
Technology Insertion ★ Test & Evaluation

## TEXAS A&M ENGINEERING

Texas A&M Engineering consists of the Dwight Look College of Engineering, and three engineering agencies, including TEES: Texas A&M Transportation Institute (TTI) conducts research and professional education in all modes of transportation. The Texas A&M Engineering Extension Service (TEEX) works to develop a highly skilled and educated workforce and enhances public safety through training, continuing education, and technical assistance.



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