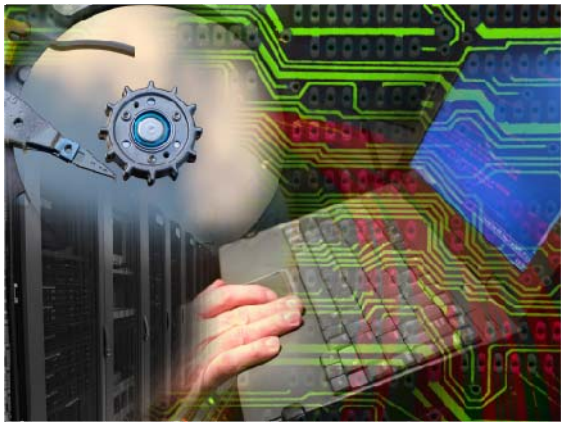
TEXAS CENTER FOR APPLIED TECHNOLOGY
TEXAS A&M ENGINEERING EXPERIMENT STATION

Core Competencies



ENERGY SUSTAINABILITY

We are committed to modernization of the nation's electric grid through the application of smart grid technologies, tools, and techniques as well as the development of new innovations in energy sustainability.

ENVIRONMENTAL SUSTAINABILITY

Our environmental staff possesses extensive experience in environmental technology and related areas of science, medicine, engineering, and mathematics. We have qualified professionals in environmental compliance, including ISO 18001. Our environmental division is also partnered with the Texas Water Resources Institute in the effort to accelerate development and adoption of new and innovative technologies to solve emerging water problems and meet future water supply needs.

MANUFACTURING OPERATIONS AND PROCESS ENGINEERING

Our research engineers apply their knowledge of manufacturing processes and machines and their control, knowledge of the essentials of manufacturing systems design and analysis, and knowledge and "hands-on" experience with modern manufacturing technology to produce return on investment for both industry and government installations.

INFORMATION TECHNOLOGY

TCAT maintains a group of highly skilled researchers and developers in high payoff areas of computing and information technology such as computer science, data visualization, software design engineering, and operations research/systems analysis.

MODELING AND SIMULATION

TCAT furthers the development and applications of modeling, simulation, and visualization as enterprise decision-making tools to support training, exercises, emergency operations, and command and control functions for industry and state, local, and federal agencies.

TECHNOLOGY INSERTION

TCAT is adept at utilizing technical expertise and innovation to preserve the capability of a system over its life cycle by applying technology to improve maintainability and reliability of systems.

TEST AND EVALUATION

TCAT tests and evaluates capabilities in an operationally realistic environment to provide unbiased data concerning operational effectiveness and suitability.

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.

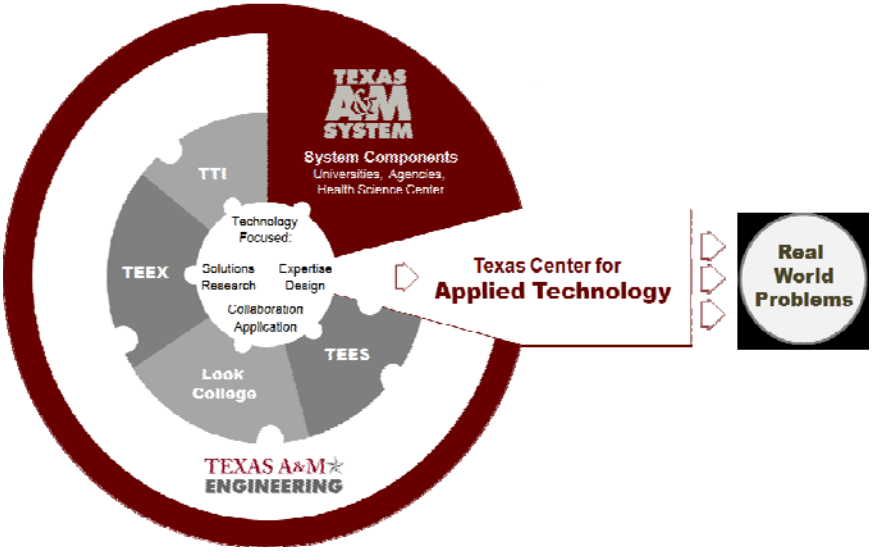
TCAT is part of the Texas A&M Engineering Experiment Station (TEES), a member of The Texas A&M University System. The A&M System is one of the largest and most comprehensive systems of higher education in the United States. Through a statewide network of eleven university campuses, seven state agencies, 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 **S**ustainability ★ **E**nvironmental **S**ustainability
Manufacturing & **S**ystems **E**ngineering ★ **I**nformation **T**echnology ★ **M**odeling & **S**imulation
Technology **I**nsertion ★ **T**est & **E**valuation

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.



For more information contact
TCAT Headquarters
Address: 3407 TAMU, College Station, TX 77843
Phone: 979.458.0250

Executive Director
James A. Wall
E-mail: tcatadministration@tees.tamus.edu
Web: http://tcat.tamu.edu

MEMBER OF THE TEXAS A&M UNIVERSITY SYSTEM