

# Cryptologic Systems Group Paper Turn Project

Cryptologic Systems Group (CPSG) is a logistics support operation located at Lackland AFB in San Antonio, Texas. This operation receives inventory, warehouses inventory, and ships inventory anywhere in the world. The CPSG maintains inventory in four warehouse facilities, maintains inventory control, and provides support for time sensitive material.

TCAT provided preliminary assessments of several of the CPSG warehousing operations that require extra handling, special conditions, or excessive storage space. This assessment required that an industrial engineer spend time working with the employees of CPSG to determine the needs and make recommendations.

One of the operations at CPSG is to store a coated paper product that requires special attention. The paper is stored in containers that have a solution to prevent drying. Subsequently, the containers must be rotated a quarter turn every three months. The labor required to perform this task is substantial with the existing storage methodology. CPSG is currently at mission failure on this operation.

TCAT recommended a combination of pallet racks and roller conveyor to facilitate the rotation requirement with the least amount of labor in the shortest amount of time. A vendor was identified and costs of implementation determined. The anticipated ROI is 1.47 years.



## 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.

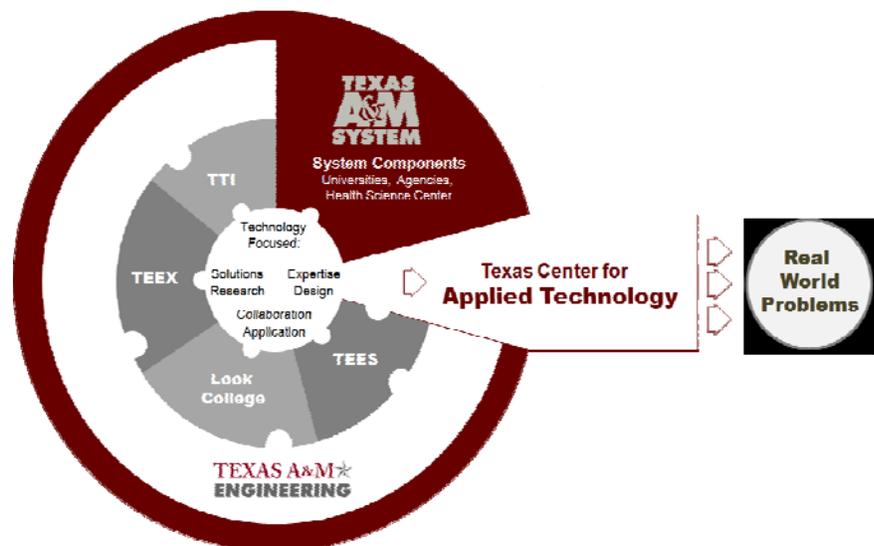
TCAT is part of the Texas A&M Engineering Experiment Station (TEES), a member of The Texas A&M University System. The A&M System is one of the largest and most comprehensive systems of higher education in the United States. Through a statewide network of eleven university campuses, seven state agencies, 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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