



TOUR AND OVERVIEW

Cryogenics Test Laboratory at Kennedy Space Center

CRYOGENICS TEST LABORATORY

The Cryogenics Test Laboratory provides a one-of-a kind capability for research, development, and application of cross-cutting technologies to meet the needs of industry and government. It offers cryogenic expertise, experimental testing, technical standards development, prototype construction, and practical problem-solving for technology development with research institutions and commercial partners.

Technology focus areas include thermal insulation systems, cryogenic components, low temperature applications, propellant processing systems, and integrated refrigeration systems. Their overall objective is to produce practical solutions to low-temperature problems while focusing on long-term technology targets for energy-efficient cryogenics on Earth and in space.



Accomplishments of the laboratory include development of:

- An aerogel-based insulation system for reducing ice formation
- A test method for determining cryogenic moisture uptake in foam materials
- A method to eliminate liquid nitrogen formation within Shuttle ET Liquid Hydrogen Intertank and help solve foam loss problems in flight.

(Excerpted from an online article: <https://kscpartnerships.ksc.nasa.gov/Partnering-Opportunities/Capabilities-and-Testing/Testing-and-Labs/Cryo-Lab>)

Use this area to record what you learn and observe during the tour.

