Center for Space Engineering Research

Dr. Frank Redd/Utah State University/Logan, Utah

Overview

Current State Contract	$100,000
Matching Funds	$4,394,945
Cumulative	$5,891,154
Industry Jobs Created	149
Center Related Jobs	10
Benefiting Utah Companies	
Globesat Holding Co.	
Interactive Resources Co.	
ICOMP, Inc.	
Globesat, Inc.	
Medcom, Inc.	
Space Dynamics Lab/USU	
Space Systems Engineering	
Patents Applied	4
Patents Issued	--
License Agreements	1

Technologies

*Infrared instrumentation
*Sensor calibration
*Upper atmosphere measurements & modeling
*Plasma diagnostics
*Data analysis
*Image compression
*Cryogenics
*Program management
*New technology developments in space remote and in-situ sensing systems
*Storage of medical imagery
*Anticipating NASA contract for a commercial remote sensing small satellite
*Satellite - borne imaging systems for commercial and military applications
*Video phones and direct satellite broadcast TV
*Contracted to develop "Micro Satellites" from McDonnell Douglas

Status

*Increased annual operating budget to $20 MM
*Successfully competed to win $20 MM contract for critical SDI satellite (1992 launch)
*Now host annual small satellite conference (natl)
*Have flown 350 payloads, 75 of which involved cryogenics
*Have become a space grant university with U of U, BYU & Denver U.

Economic Impact

*Image compression technology demonstration will facilitate new concept in video phones(market size equal to VCR's)
*A total of 23 jobs now being directly supported by projects resulting from this center.
*Serving as a nucleus for developing further expansion in the space industry in Northern Utah.
*Development of space cryogenic technology promises expansion in economic opportunities