Center for Aerospace Science Technology

Professor Robert J. Twiggs/Weber State University/Ogden, Utah

Overview

Current State Contract	$105,000
Matching Funds	$324,386
Cumulative	$1,412,381
Industry Jobs Created	80
Center Related Jobs	5
Benefiting Utah Companies	
Simulacrum, Inc.	
Intraspace, Inc. No.S.L.	
Patents Applied	--
Patents Issued	--
License Agreements	--

Technologies

*Small satellite design including features such as
- -particle detector
- -color camera
- -light detection for ozone mapping
- -magnetometer
- -microcomputer
- -packet radio communications

*Development of sun angle detector

*Satellite Doppler beacon

Status

*Webersat satellite launched January 1990. Operatoinal in polar orbit demonstrating advanced small satellite technology

*Availability of new launch opportunities

*Working with Southern Calif Edison in studying special application of satellite for power utility

*Working on space projects with University of Alabama at Huntsville

*Designed sun sensor to be used on Navy satellite

Economic Impact

*Magnetometer developed by center has been licensed by Orchid Engineering of Huntsville, Utah

*Helped move new company to Utah, Intraspace with 40 jobs and $6 million in contracts.

*Designed sun sensor to be used on Navy satellite

*Development of small satellite is attracting business to Utah for aerospace design and manufacturing

*New spin-off company, Simulacrum, Inc.

*Working with PacifiCorp to establish a Utah company to manufacture ground stations for small satellite applications