

# ANNUAL REPORT

Florida High Tech Corridor Council, Inc.



1998-1999

# United in a Vision

Dozens of companies and organizations and the people who make them successful have quietly put their support behind the Florida High Tech Corridor in a way almost unheard of in economic development. In fact, through their generosity we estimate more than 40,000 hours have been put behind this effort in 1998-99 at no cost to the Corridor Council.

United in a vision of a regional economic development team with the moxie to dare rival California's high tech behemoth Silicon Valley, these dedicated individuals formed a fine-tuned lineup that performed beyond any coach's expectations. The volunteer hours put toward the cause – both those donated by business entities and those donated by individuals – speak for themselves.

It is simply not possible to identify each and every one of them, but here we present a snapshot of our volunteer support and a glimpse at where it comes from:

Sector	Volunteer Hours
Universities/Community Colleges	11,000
Private Industry	18,000
Community	6,600
Economic Development Agencies	6,000
Government	500

These volunteer efforts have made it possible to market and operate the Corridor using less than \$200,000 of the more than \$7.1 million appropriated by the Legislature ... meaning the remaining \$6.9 million has gone directly into university-based research projects with industry partners who have matched state dollars with both cash and in-kind support totalling nearly \$12 million. Of special note, the Council's \$100,000 support of corridor community colleges resulted in a \$1.3 million National Science Foundation award.

# Productive Partnerships: Our Legacy

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**John C. Hitt**, President,  
University of Central Florida

**Thomas J. Tighe**, Acting President,  
University of South Florida

Never before in the history of Florida economic development have so many productive partnerships existed as do through Florida's High Tech Corridor Council. This is truly an innovation ... transcending political boundaries for the benefit of a region far more comprehensive than any single city or county. This is a coalition that has seen egos and logos left at the door for the common good of a dynamic region.

In the past, we have experienced first-hand the benefits of this kind of cooperation – cooperation that will continue in the future with the appointment of our good friend Richard Peck who will soon serve as interim president of the University of South Florida.

So have the people and businesses our two universities are designed to serve.

Dozens of companies are partnering with us in pursuit of new technologies and technology careers for our graduates. Millions of dollars are being invested into our university system by companies partnering with us and providing matching grants to extend money provided by the Florida Legislature to fund technology programs at the two universities.

This year, we extend a special thanks to one of our corridor partners, Peter Panousis, president and CEO of Cirent Semiconductor. Through this unique partnership, Cirent provided an endowed chair to each of the two universities.

Finally, this annual report would be incomplete without credit to our esteemed colleague Betty Castor, who as president of the University of South Florida joined John Hitt in founding this enterprise and worked as a tireless and dedicated partner at the business of attracting, retaining and growing high technology industry.

She is a great Floridian whose handprints will remain forever on our economy.



## A Meeting of the Minds:

In June of 1999, Presidents John Hitt (right) and Betty Castor accepted endowed chairs for each university from Peter Panousis, president and CEO of Cirent Semiconductor.

# Florida's High Tech Corridor: A Plan Comes Together

**Randy Berridge**, President

We've come so far so fast.

It's hard to believe just three years have passed since John Hitt, president of the University of Central Florida and then - President Betty Castor of the University of South Florida brought their idea for a unique economic development model to the team that would become the Florida High Tech Corridor Council.

From there began a journey that I am proud to have shared with each one of you. We have so much to take pride in ... teamwork resulting in more than \$1 billion in investments ... a dedication to the purpose laid out for us by our visionary academic patrons ... generosity that has enabled our team to set aside our individual agendas and work together for a common goal: the development of a high tech community spanning more than 130 miles from the Space Coast to the Gulf Coast. This community includes 6.3 million Floridians who reside in the following counties: Brevard, Citrus, Desoto, Flagler, Hardee, Hernando, Highlands, Hillsborough, Lake, Levy, Manatee, Marion, Orange, Osceola, Pasco, Pinellas, Polk, Sarasota, Seminole, Sumter and Volusia.

The 1998-99 fiscal year brought new challenges – and new success. The partnership between academia, industry, economic development and government served again to secure major enhancements at Cirent Semiconductor in Orlando – a \$700 million investment that will upgrade the facility's eight-inch wafer fabrication cleanroom and equipment, ensuring Cirent's production into the 21st century and our ability to attract the semiconductor manufacturers.

In this annual report, you will not only read about Corridor-funded university research projects with industry partners – we will share with you two of our most creative regional efforts: the Information Technology Competencies Database project and our Tech 4 Consortium.

More than 3,000 high tech companies employing 200,000 people do business here today – and 2,700 of those companies have sprung up in this decade alone. If Walt Disney and his vision for our region was thought to have major influence through the '70s and '80s, I think it's safe to say the impact of the Council and our supporters through the '90s and beyond in the world of high tech stands up to comparison.

High school teachers at "Chip Camp" join Tech 4 team members for a graduation photo complete with bunny suits.



## Information Technologies Web-Based Competencies Database

Under the leadership of Oracle Corp.'s George Mezo, Lake Mary Chamber of Commerce President Owen Wentworth and Seminole Community College Vice President Carol Hawkins, the Council has provided more than \$60,000 to fund a study that will result in a single point of information on the Internet where employers, educators, students and their parents can explore:

- the competencies required for information technology jobs;
- the education needed to develop those competencies;
- colleges and universities that provide the necessary training;
- and the opportunities that await those who achieve those skills.

# Searching for Future Stars with the Tech 4 Consortium

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**Jeffrey Bindell**, Chairman &  
Director of the Analytical Lab,  
Cirent Semiconductor

We're all aware that workforce development is a top concern for companies in every field. Along Florida's High Tech Corridor the unemployment rate hovers at around three percent – that means just about everyone who wants a job, has a job. It's good news for the labor force, but not so good for the companies who constantly need new workers to keep up a rapid growth pace – more often than not, those are high tech companies.

Workforce development is more than just a concern – it's a life-or-death issue. Science teaches us that for every action there is an equal reaction, and it's no different in business. For every expansion, every move to meet the ever-increasing demand for technology's conveniences, there is an equal reaction that materializes as a need for technically-trained employees.

The Tech 4 Consortium is dedicated to helping high tech companies find the employees they need right here in our communities – so the jobs the Council helps create are for our residents.

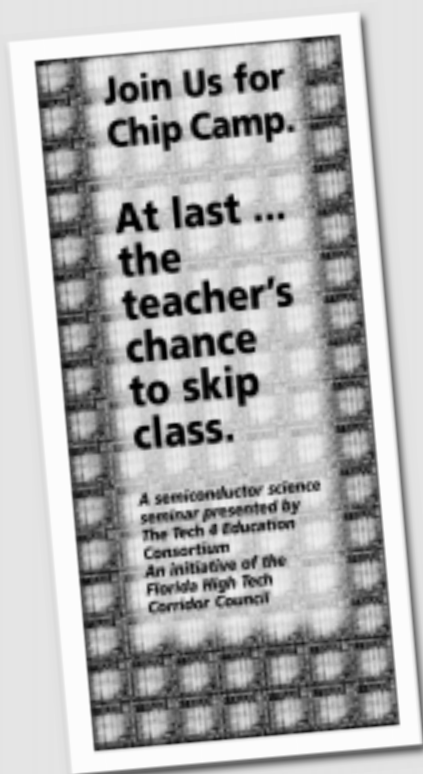
Tech 4 was created when the Council partnered with Cirent Semiconductor to develop a two-year associate degree program in semiconductor manufacturing at Valencia Community College in Orlando.

The project branched out to Hillsborough Community College. From there the idea caught fire and a mission was born. Today, the Tech 4 Consortium teams industry members with 17 community colleges, the public schools, regional technical centers and School-to-Work organizations to develop programs aimed at middle and high school students ... the future stars of the high tech workforce.

In 1998-99, our Chip Camp became a powerhouse program for reaching high school teachers, and through them, their students. Each of our five Chip Camps, held at Cirent Semiconductor, was filled to capacity – and the word-of-mouth was very encouraging. Science and math teachers from across the Corridor came together for the free, two-day seminars to learn about semiconductor science. To help them take the knowledge back to the classroom, we provided the teachers with learning modules that could be incorporated directly into the curriculum – and the demand was such that we went from offering Chip Camp once a year to once a quarter.

The summer of 1999 saw two major accomplishments: the establishment of an annual internship program at Cirent and our crowning jewel thus far – the award of a \$1.3 million National Science Foundation grant. Designated for the further development of activities aimed at junior high and high school students – including a mobile learning module that can be driven from school to school – the NSF grant is a prestigious award that constitutes a major feather in the cap of every Tech 4 team member.

The Tech 4 has evolved into an unbeatable team ... they work together to pinpoint opportunities at all levels and then to make them a reality.



# Everybody Wins: Putting Money Where Our Mouth Is

Of everything the Corridor Council does, we are probably most proud of the strong partnership we have forged with our universities. And, it's only natural that the Council invests much of its funding in projects that tie us with the University of Central Florida and the University of South Florida while making strides toward our mission to attract, retain and grow high tech business in our region.

We began the 1998-99 fiscal year with a budget of \$925,000. Of that, the Council dedicated \$100,000 to corridor community colleges for technical training. More than \$600,000 and the Florida Legislature's \$6.2 million went to the University of Central Florida and University of South Florida to fund discretionary projects with high tech companies. In all, UCF and USF conducted 62 projects in conjunction with 42 companies.

To provide you with a taste of the innovative work that was done, we asked each university to select three projects that they felt represented their use of the funds they received. All other projects – each one equally of note – are listed by sector. For more detailed descriptions of both UCF and USF research, please visit the Corridor Council website at [www.floridahightech.com](http://www.floridahightech.com).

# USF Projects

From the \$3.3 million provided to USF by the council and the state of Florida, federal and corporate matching grants and in-kind support multiplied research funds to \$3.9 million ... a more than 100 percent return on the state's investment.

## **On-Wafer Metrology for 100GHz Microelectronics**

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*Project Leader: L. P. Dunleavy, University of South Florida*

*Industry Partners: Alliant Defense Systems, Anritsu, GGB Industries Inc., Karl Suss America Inc., Maury Microwave Corp., and Noise/COM Inc.*

This project represents an innovative teaming of USF faculty and students with six industrial contributors, including two Florida companies. The project will set up an otherwise cost-prohibitive measurement capability and utilize it to research and develop methods and improvements to 100GHz wafer probing. The work has two thrusts involving development of approximate screening tests for 100GHz microelectronic chips and development of accurate calibration methods for 1GHz to 100GHz on-wafer metrology. This program will provide a significant leap in technology for USF. Specific technology transfer is planned with the two primary company sponsors, Alliant Defense Systems and Anritsu.

In competition with other companies for missile and munitions contracts, superior transceiver performance is critical. The Corridor Project on W-Band Chip Metrology addresses the noise figure and power amplifier MMIC chip questions that must be answered to enable superior transceiver performance.

**Total allocated funds: \$368,402**

**Corridor Investment: \$100,000**

**Private Match: \$90,000 Cash, \$178,402 In-Kind**

## **Quantitative Human Anatomy**

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*Project Leader: Don Hilbelink, University of South Florida*

*Industry Partner: Gold Standard Multimedia*

With collaborative efforts from USF faculty and students in mechanical engineering and computer science, Gold Standard Multimedia is in the process of developing software to simulate such events as whiplash injury or simulated surgery to help study the cervical spine.

In this project, volumetric data files of anatomical structures of the adult human's neck region will be converted to provide compatibility with a range of commercially available computer aided design (CAD) software currently being used by engineers in the aerospace and automotive industries. These CAD programs will be used to

obtain specific mathematical information for each anatomical structure and to develop a finite element analysis module that can be used to study physical and dynamic properties of the cervical spine.

**Total allocated funds: \$150,000**  
**Corridor Investment: \$50,000**  
**Private Match: \$50,000 Cash, \$50,000 In-Kind**

## Double Blind Placebo Controlled Trial of Inversine in Tourette's Syndrome

*Project Leader: Paul Sanberg, University of South Florida*  
*Industry Partner: Layton BioScience*

The goals of this project are to develop novel therapies for neurodegenerative diseases and Tourette's Syndrome.

"The close scientific collaboration between the faculty and administration at USF and Layton BioScience, Inc. has been not only productive, but quite enjoyable. Layton looks to a bright future and a continuing growth of this collaboration as we continue to develop and market USF-based products," said Gary Snable, CEO of Layton BioScience.

**Total allocated funds: \$870,000**  
**Corridor Investment: \$250,000**  
**Private Match: \$620,000 In-Kind**

## Additional Projects by Sector

### Microelectronics

#### *Characterization of Thin Gate Oxides*

Project Leader: Yun-Leei Chiou  
Industry Partner: Bell Laboratories

**Total allocated funds: \$132,980**  
**Corridor Investment: \$37,500**  
**Private Match: \$95,480 In-Kind**

#### *High Performance Dedicated Nonlinear Processors for Communications and DSP*

Project Leader: V. K. Jain  
Industry Partner: Harris Corporation

**Total allocated funds: \$30,000**  
**Corridor Investment: \$10,000**  
**Private Match: \$20,000 Cash**

#### *Renovation of the USF Advanced Metrology Laboratory*

Industry Partner: Cirent Semiconductor

**Total allocated funds: \$394,785**  
**Corridor Investment: \$194,785**  
**Private Match: \$200,000 In-Kind**

#### *A MEMS Based Voltage-Controlled Microwave Oscillator*

Project Leader: Thomas Weller  
Industry Partner: Raytheon Corp.

**Total allocated funds: \$60,000**  
**Corridor Investment: \$20,000**  
**Private Match: \$20,000 Cash, \$20,000 In-Kind**

#### *Voice Algorithm Development for IP Applications*

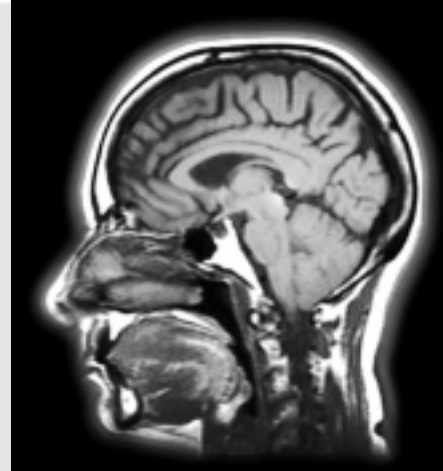
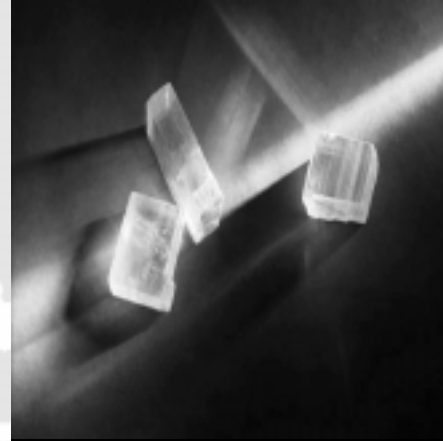
Project Leader: Wilfrido Moreno  
Industry Partner: IPAXS Corporation

**Total allocated funds: \$65,587**  
**Corridor Investment: \$21,587**  
**Private Match: \$14,000 Cash, \$30,000 In-Kind**

#### *Establishment of the Cirent/USF Engineering Education Interactive Program*

Industry Partner: Cirent Semiconductor

**Total allocated funds: \$387,000**  
**Corridor Investment: \$337,000**  
**Private Match: \$50,000 In-Kind**



#### *Design of Configurable Large Memory Blocks Using a Laser Programmable MCM Substrate*

Project Leader: Wilfrido Moreno  
Industry Partner: Honeywell Inc.

**Total allocated funds: \$48,728**  
**Corridor Investment: \$16,228**  
**Private Match: \$12,500 Cash, \$20,000 In-Kind**

#### *Establish a USF Center for Microelectronics Research (CMR) to Support Metrology, Silicon Technology and Micro-Fabrication.*

Project Leader: Mark Anthony  
Industry Partner: Cirent Semiconductor

**Total allocated funds: \$830,000**  
**Corridor Investment: \$430,000**  
**Private Match: \$400,000 In-Kind**

## Laser/Optics

*Crystal Fiber Temperature Sensor*

Project Leader: Nicholas Djeu  
Industry Partner: MicroMaterials Inc.

**Total allocated funds: \$129,826**  
**Corridor Investment: \$49,826**  
**Private Match: \$10,000 Cash,**  
**\$70,000 In-Kind**

*Product Development of a Diode Laser-Doppler Vibrometer*

Project Leader: Dennis Killinger  
Industry Partner: Litton Laser Corp.

**Total allocated funds: \$150,000**  
**Corridor Investment: \$50,000**  
**Private Match: \$50,000 Cash,**  
**\$50,000 In-Kind**

*1998 Report on Florida's Laser and Optics Cluster Technology Sector Study by USF Office of Economic Development (OED)*

**Total allocated funds: \$20,000**  
**Corridor Investment: \$20,000**

## Medical/Biomedical

*Real Time Identification of Food-Borne Pathogens by an Innovative Biosensor*

Project Leader: Daniel Lim  
Industry Partner: Research Intl.

**Total allocated funds: \$134,400**  
**Corridor Investment: \$44,800**  
**Private Match: \$89,600 In-Kind**

*Institutional Support for Corridor Networking of Medical Technology Industry, Technology Transfer and R&D*

**Total allocated funds: \$125,000**  
**Corridor Investment: \$125,000**

*1998 Report on the Medical/Biomedical Industry in Florida's Corridor Region Technology Sector Study by USF OED*

**Total allocated funds: \$20,000**  
**Corridor Investment: \$20,000**

## Information Technology

*1998 Report on the Information Technology Industry in Florida's Corridor Region Technology Sector Study by USF (OED)*

**Total allocated funds: \$20,000**  
**Corridor Investment: \$20,000**

*The Office of Resources for Business and Industry Training (ORBIT)*

**Total allocated funds: \$125,000**  
**Corridor Investment: \$125,000**

## Telecommunications

*Improved Telecommunication Performance of Existing Satellite Dish Systems*

Project Leader: Rudolf Henning  
Industry Partner: Custom Manufacturing and Engineering

**Total allocated funds: \$306,912**  
**Corridor Investment: \$100,000**  
**Private Match: \$206,912 In-Kind**

*Wavelet-Based Orthogonal Multipulse Signaling for Advanced Wireless Networks*

Project Leader: V. K. Jain  
Industry Partner: Harris Corporation

**Total allocated funds: \$30,000**  
**Corridor Investment: \$10,000**  
**Private Match: \$20,000 Cash**

## Transportation

*Small Engine Portable Analyzer Test Development Project Continuation*

Project Leader: Kenneth Buckle  
Industry Partner: MSE Inc.

**Total allocated funds: \$45,128**  
**Corridor Investment: \$12,628**  
**Private Match: \$32,500 In-Kind**

*Development of the Rivolta Isigo Electric Vehicle*

Project Leader: Elias Stefanakos  
Industry Partner: Rivolta Group

**Total allocated funds: \$137,830**  
**Corridor Investment: \$45,950**  
**Private Match: \$10,000 Cash,**  
**\$81,880 In-Kind**

*A Mm-Wave Proximity Sensor*

Project Leader: Thomas Weller  
Industry Partner: Wolff Controls

**Total allocated funds: \$90,000**  
**Corridor Investment: \$30,000**  
**Private Match: \$30,000 Cash,**  
**\$30,000 In-Kind**

## Marine Sciences

*The Establishment of the Physical Oceanographic Real-Time System (PORTS)*

**Total allocated funds: \$1,250,000**  
**Corridor Investment: \$250,000**  
**Federal Grants: \$1,000,000**

## Misc. (non-sector specific)

*Development of Manganese Products for Pollution Control and Electronic Devices*

Project Leader: Robert Benson  
Industry Partner: Charles Wynn Assoc.

**Total allocated funds: \$224,000**  
**Corridor Investment: \$49,000**  
**Private Match: \$50,000 Cash,**  
**\$125,000 In-Kind**

*Coulter Corporation Project*

Project Leader: L. Garcia-Rubio  
Industry Partners: Coulter Corp.

**Total allocated funds: \$93,083**  
**Corridor Investment: \$23,083**  
**Private Match: \$70,000 In-Kind**

*Modeling and Development of Supercritical Sorption Processes*

Project Leader: Aydin Sunol  
Industry Partner: Advanced Separation Technologies

**Total allocated funds: \$150,000**  
**Corridor Investment: \$50,000**  
**Private Match: \$20,000 Cash,**  
**\$80,000 In-Kind**

*Support for Graduate Student Industrial Field Experiences*

**Total allocated funds: \$200,000**  
**Corridor Investment: \$200,000**

*Funding for Emerging Opportunities and Commitments*

**Total allocated funds: \$44,523**  
**Corridor Investment: \$44,523**

*Workforce Development Efforts to Attract Engineers and Scientists from Chicago and New York City*

**Total allocated funds: \$20,000**  
**Corridor Investment: \$20,000**

*Increasing Economic Data Analysis and Addressing Workforce Needs in Information Technology*

**Total allocated funds: \$581,090**  
**Corridor Investment: \$581,090**



# UCF Projects

The University of Central Florida received a total of \$3.5 million in discretionary funds from the Florida State Legislature, including \$300,000 from the Council budget. The university paired the money with private industry matching support and federal grants to achieve \$5.6 million, for a 160 percent return on Florida's investment.

## Central Florida Business and Technology Development Center

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*Project Leader: Al Polfer*

*Industry Partner: Small Business Development Center (SBDC)*

Many new or developing stage enterprises struggle due to a lack of capital, poor business management, weak organizational skills, and lack of sufficient technical skills or engineering methodology. For many organizations, a key element used to fill these gaps and provide a supportive network of university faculty, business and community expertise to expedite the technology/business model is the "business and technology incubator."

The Central Florida Business and Technology Development Center will provide management, strategic direction and client evaluations with 24 incubator offices. The Small Business Development Center and the Central Florida Innovation Corporation are scheduled to move into the site as soon as it is available. In addition, Scottish Trade International is set to provide space for up to 10 Scottish companies intending to form partnerships with U.S. high tech companies.

**Total allocated funds: \$140,000**

**Corridor Investment: \$20,000**

**Private Match: \$50,000 Cash, \$70,000 In-Kind**

## Field Control Fluidic Damper

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*Project Leader: Weili Luo*

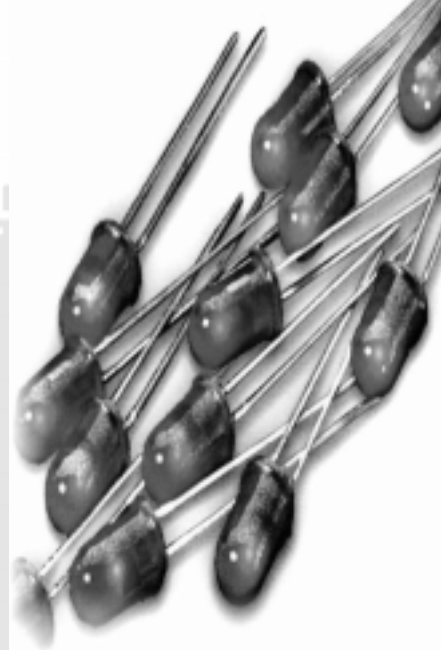
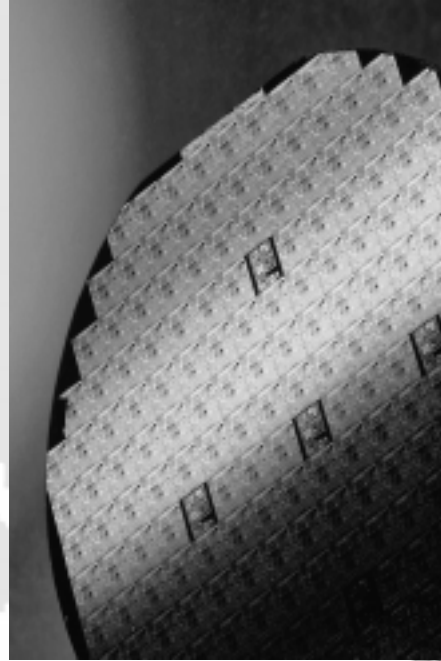
*Industry Partner: Lockheed Martin Electronics and Missiles*

A strong area of interest for Lockheed Martin is the reduction of shock and vibration loading to highly accurate, stabilized platforms such as missile inertial sensors and forward looking infrared (FLIR) gimbals through active damping. This project is exploring MR material applications for the purpose of demonstrating benefits to inertial guidance package stabilization.

**Total allocated funds: \$115,500**

**Corridor Investment: \$27,500**

**Private Match: \$35,000 Cash, \$53,000 In-Kind**



## VP Research Priority – Dev Content for Virtual Theme Park

Project Leader: J. Michael Moshell

Industry Partner: Real 3D

The UCF/Real 3D team has developed novel techniques for constructing trees and plants in virtual worlds and video games, and used them to test the new Fahrenheit Scene Graph software system from Silicon Graphics and Microsoft. The team is also working with other partners, including Universal Studios Escape, to develop ideas for novel applications of Real 3D's RealScan 3D Camera.

**Total allocated funds: \$184,084**

**Corridor Investment: \$20,000**

**Private Match: \$33,996 Cash, \$130,088 In-Kind**

### Additional projects by sector:

#### Semiconductor Manufacturing & Development

*Advanced Materials Characterization Facility*

Project Leader: Vimal Desai  
Industry Partner: Cirent Semiconductor

**Total allocated funds: \$2,000,000**  
**Corridor Investment: \$1,000,000**  
**Private Match: \$1,000,000 In-Kind**

*Miniature Refrigerator: Design, Fabrication & Testing*

Project Leader: Louis C. Chow  
Industry Partner: Lockheed Martin Electronics & Missiles

**Total allocated funds: \$105,000**  
**Corridor Investment: \$35,000**  
**Private Match: \$70,000 Cash**

*VP Research Corridor Cirent Support for AMPAC*

Project Leader: Vimal Desai  
Industry Partner: Cirent Semiconductor

**Total allocated funds: \$891,600**  
**Corridor Investment: \$445,800**  
**Private Match: \$445,800 In-Kind**

#### Lasers & Electro-optics

*Antenna-coupled Uncooled Infrared Local Plane Arrays*

Project Leader: Glenn Boreman  
Industry Partner: Lockheed Martin

**Total allocated funds: \$137,000**  
**Corridor Investment: \$60,000**  
**Private Match: \$77,000 Cash**

*Real-Time Characterization & Monitoring of Particulate Matter in Industrial Processes*

Project Leader: Aristide Dogariu  
Industry Partner: Technology Capital Funding Group, LLC

**Total allocated funds: \$193,797**  
**Corridor Investment: \$40,000**  
**Private Match: \$153,797 Cash**

*Laser Induced Crack Initiation for Laser Drive Cleavage of Brittle Materials*

Project Leader: Leon Glebov  
Industry Partner: Accudyne Corporation

**Total allocated funds: \$166,373**  
**Corridor Investment: \$35,000**  
**Private Match: \$131,373 Cash**



*Optical Fiber Packing of Optoelectronic Devices*

Project Leader: Patrick LiKamWa  
Industry Partner: Neos Technologies, Inc.

**Total allocated funds: \$29,253**  
**Corridor Investment: \$10,000**  
**Private Match: \$19,253 Cash**

*Femtosecond UV Micromachining Facility*

Project Leader: Martin Richardson  
Industry Partner: Laser Energetics Inc.

**Total allocated funds: \$77,985**  
**Corridor Investment: \$25,000**  
**Private Match: \$52,985 Cash**

*Phase Shifting for Radar with Photo-Activated Polymers*

Project Leader: George Stegeman  
Industry Partner: Lockheed Martin Electronics & Missiles

**Total allocated funds: \$62,500**  
**Corridor Investment: \$27,500**  
**Private Match: \$35,000 Cash**

*Smart Antennas for Wireless Communications*

Project Leader: Parveen Wahid  
Industry Partner: Raytheon E Systems

**Total allocated funds: \$72,240**  
**Corridor Investment: \$22,500**  
**Private Match: \$49,740**

## Medical/Biomedical Technology

### *Bioelastics Research*

Project Leader: Henry Daniell

**Total allocated funds: \$128,091**  
**Corridor Investment: \$37,500**  
**Private Match: \$90,591 Cash**

### *Development of a New Apoptosis (Cell Death) Analysis System Using UV Resonance Raman Spectroscopy*

Project Leader: Hiroshi Matsui  
Industry Partner: Laser Photonics

**Total allocated funds: \$46,000**  
**Corridor Investment: \$15,000**  
**Private Match: \$31,000 In-Kind**

## Simulation & Training

### *Soft-Switching Unity Power Factor Correction Circuits for Space Applications*

Project Leader: Issa Batarseh  
Industry Partner: Electrodynamics Associates, Inc.

**Total allocated funds: \$584,437**  
**Corridor Investment: \$30,000**  
**Private Match: \$554,437 Cash**

### *Medical Tech Training*

Project Leader: Brian Goldiez  
Industry Partner: IST-Med Tech

**Total allocated funds: \$284,200**  
**Corridor Investment: \$204,200**  
**Private Match: \$80,000 In-Kind**

### *Application of Beowulf Cluster Supercomputing to Simulation*

Project Leader: Guy Schiavone  
Industry Partner: STRICOM

**Total allocated funds: \$324,407**  
**Corridor Investment: \$25,000**  
**Private Match: \$299,407 Cash**

### *National Center for Simulation*

Project Leader: Mark Yerkes  
Industry Partner: National Center for Simulation

**Total allocated funds: \$575,885**  
**Corridor Investment: \$150,000**  
**Private Match: \$425,885 In-Kind**

## Software Development

### *Computing Molecular Structures*

Project Leader: Narsingh Deo  
Industry Partner: Honeywell Inc.

**Total allocated funds: \$37,500**  
**Corridor Investment: \$7,500**  
**Private Match: \$30,000 Cash**

### *VP Research Priority – Oracle*

Project Leader: Kien A. Hua  
Industry Partner: Oracle Corporation

**Total allocated funds: \$500,000**  
**Corridor Investment: \$250,000**  
**Private Match: \$250,000 In-Kind**

### *Investigation of ZnO/Diamond/Si Substrates for SAW Applications*

Project Leader: Donald C. Malocha  
Industry Partner: Sawtek

**Total allocated funds: \$28,200**  
**Corridor Investment: \$10,000**  
**Private Match: \$13,200 Cash, \$5,000 In-Kind**

## Other

### *Wireless Telecommunications Research*

Project Leader: Mikhael  
Industry Partner: Harris Corp.

**Total allocated funds: \$500,000**  
**Corridor Investment: \$250,000**  
**Private Match: \$250,000 In-Kind**

### *Increasing K-12 Competency in Math, Science, Engineering and Technology*

Project Leader: Larry Chew  
Industry Partner: Technological Research and Development Authority

**Total allocated funds: \$105,000**  
**Corridor Investment: \$10,000**  
**Private Match: \$95,000 Cash**

### *AIMS (Advanced Image Management Systems)*

Project Leader: Erol Gelenbe  
Industry Partner: Harris Corporation

**Total allocated funds: \$500,000**  
**Corridor Investment: \$250,000**  
**Private Match: \$250,000 In-Kind**

### *Corporate/Community Computer Science Training*

Project Leader: Erol Gelenbe  
Industry Partner: AT&T Network Operations Center

**Total allocated funds: \$200,000**  
**Corridor Investment: \$100,000**  
**Private Match: \$100,000 In-Kind**

### *Monitoring of Multi-Platform Network System Vulnerabilities with Intelligent Agents*

Project Leader: Pamela McCauley-Bell  
Industry partners: MIT and Lockheed Martin

**Total allocated funds: \$52,500**  
**Corridor Investment: \$17,500**  
**Private Match: \$35,000 Cash**

### *Florida Space Institute Research, Development and Training Activities*

Project Leader: Ronald Phillips  
Industry Partner: Florida Space Institute

**Total allocated funds: \$700,000**  
**Corridor Investment: \$350,000**  
**Private Match: \$350,000 In-Kind**

### *Research on A Soft-Touch/Multi-Arm Robotic System*

Project Leader: Zhihua Qu  
Industry Partner: Brevard Community College's Open-Access Cleanroom Facility

**Total allocated funds: \$350,000**  
**Corridor Investment: \$25,000**  
**Private Match: \$325,000 Cash**



# Marketing ... a major mission.

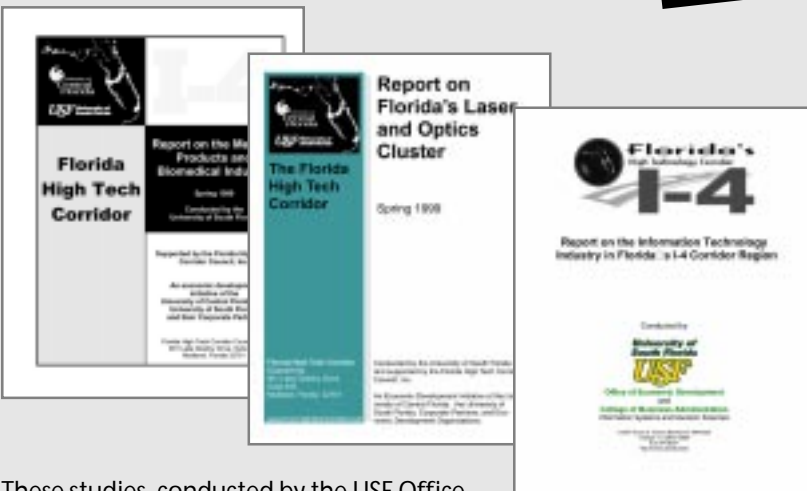
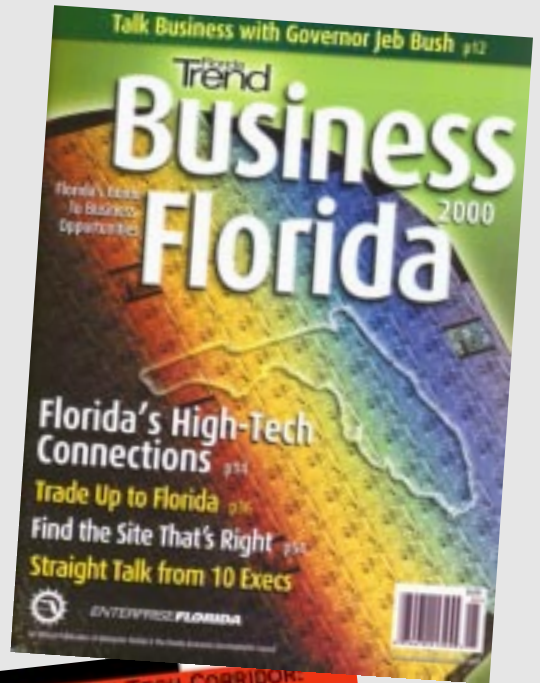
Attracting new high technology companies to our region requires the Corridor Council to use a variety of tools ... publicity, advertising, trade missions and trade show participation, and the development of specialty tools that can be used by our economic development organization partners in their outbound marketing programs.

Corridor representatives have pooled their resources to extend the region's reach in trade show participation and take our Florida message coast-to-coast. In the last year, the Corridor has been represented at five trade shows targeting our five key industrial sectors.

The Corridor story was told in a six-page, full-color insert in *Florida Trend* magazine's "Business Florida 2000," a joint project of *Trend* and Enterprise Florida. More than 60,000 copies of this publication were targeted to key decision-makers in major industries throughout the U.S.

Corridor partners have traveled throughout the U.S. and to the Pacific Rim in partnership with Enterprise Florida to visit major semiconductor manufacturers to tell the story of Florida's outstanding, pre-qualified semiconductor fabrication sites.

Most important has been the cooperation among all of the Corridor's economic development agencies. They have worked for a common goal ... regional development.



These studies, conducted by the USF Office of Economic Development, are significant to the Corridor's mission to attract, retain and grow high tech industry. They can be seen in detail at [www.usf.edu/oed/studies.htm](http://www.usf.edu/oed/studies.htm).

## Tradeshows

Chicago ...

National Design & Engineering Show

New York ...

Medical Device & Manufacturing Show, East

Toronto, Canada ...

Canadian High Tech Show

San Jose, CA ...

WesCon

Anaheim, CA ...

NepCon