

**Special Interest:**

- South Carolina Research Universities' grants add up to best year ever \$427,000,000
- SCTA discovers Austin Meyers, and his famed sky rockets
- Enterprise Web Machines wins SBIR grant
- Murray.com becomes political powerhouse with campaign software
- Internet Literacy a must skill for everyone



The Next Economy is ready for SC, are we ready for it?

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## EWM, Murray.com, HS students must have career focus for the future

**Enterprise Web Machines**, a Columbia technology firm, has received a \$70,000 grant from the U.S. Army's Simulation, Training and Instrumentation Command in Orlando, Fla. Enterprise Web Machines will develop prototype software for running tactical simulations on personal digital assistants.

Columbia-based **Murray.com** lands another political account. Scott's software is in high demand as political campaigns heat up. His campaign management software tracks all reports.

**South Carolina legislators win great reviews** for their support

of the governor's task force which will require that all secondary school students have an area career focus before they graduate from high school. These focus areas must be one of the 16

Career Clusters established by the US Department of Education. This should help our students find meaningful jobs in an area where they have already received in-depth study and training in one of these clusters.



## Internet Literacy Becomes Necessary Skill

A study released by the University of California Center for Communications Policy found that Americans who use the internet regard it as at least as important as newspapers and books and more important than television, radio, and magazines as a source of information. Not surprisingly, 12 to 18 years old led in

internet use; with 97% using it. In the 25 to 35 age group, 83% use the Internet, along with 73% for those ages 36 to 55. While the survey respondents relied heavily on the Internet, they also indicated skepticism about the information found there (only 53% believed "all" or "most of" what they read). Therefore,

skills in not just finding, but also assessing the validity of information needs to be taught in school. How to use the Internet wisely appears to be a new form of literacy.

New Google toolbar blocks pop-up ads.....<http://toolbar.google.com/index-beta.php>

## COMMERCE REPORT PRESENTS INFORMATION ON UNITED STATES NEED FOR IT WORKERS

The U.S. Department of Commerce has released a report that examines aspects of the IT industry's need for workers. The report presented five broad findings:

The IT education and training infrastructure has grown significantly in size and scope over the past decade

Jobs in the IT field are varied, complex and specialized, as are the knowledge, skills and experience required to perform them.

Employers seek workers who possess a specific combination of

technical skills and experience, often coupled with a college degree, soft skills and business or industry knowledge. Typically, employers prefer job candidates with the exact skill set who require no additional training.

There is no single path to prepare a worker for a professional IT job. The training landscape is complex, rapidly evolving and therefore challenging to navigate. "While the education and training landscape is rich with consumer choice, it is also complex. In this report, we lay out the landscape, with the hope

that policymakers in government, education and business will find this information useful as they develop education and training policies and programs designed to ensure a world-class IT workforce for the US," said Commerce Sec. Evans.

### Gartner Predicts Threat to Internet Security

Gartner warns that 20% of enterprises could experience a "serious Internet security incident that involves information or intellectual property by 2005." There are over 600 million worldwide net users. Be prepared to secure your internet.

## Major communities around our state are working toward being the first to light up their cities with Wi-Fi

Jim Gambrell, Executive Director for the City of Columbia, has stated that Columbia will be the first to bring Wi-Fi to citizens within a 3 to the 5 mile radius of the city.

The South Carolina Technology Alliance was the first to bring the city wide idea of Wi-Fi to the Columbia area. Gambrell has a select group of our cities' technology leaders working on this opportunity.

Intel executives have visited Columbia three times to discuss using the Columbia area as a model for Wi-Fi. Charleston Coffee Café was the first to offer this service to their customers.

Rising High Bakery was the first in Columbia to provide remote wireless to those who visit their restaurant.

Many of our tech community members are visiting Rising High everyday and it's not just for a cup of Java.

Columbia going Wi-Fi!

Surf the net and check your e-mails while enjoying a cup! To check for available open Wi-Fi networks click on [www.wifinder.com](http://www.wifinder.com)

### The South Carolina Technology Alliance Discovers and Introduces Austin Meyer and his X-plane to the Columbia Entrepreneurial Council (CTEC) and his fame Sky Rockets

Although you may like sweet tea, Austin must drink two or three gallons a day. But, with his metabolism he must burn it off as fast as it goes down. Many months ago the South Carolina Technology Alliance discovered this absolutely incredible young man. He was meeting with Marion Hawkins who is president of Picket

Fence, a hosting and web design company. Austin was in the process of up-dating his web-page and also releasing his latest version of X-Plane. This is by far the most impressive flight simulation software package we have ever seen. It is rumored that Microsoft has made a number of offers to Austin and he has said, "No

Thanks, Not Interested!". Joe Guy Collier has written about him, and the latest is a big spread in Popular Science Magazine. If you ever get a chance to meet this incredibly hyper-active young man with manic energy, stop what your doing and listen. He is on his way and his rocket may be his own, built right here in Columbia.

# Technology Review Rankings for Research Universities

## Research Scorecard for 2002

1. The University of California
2. MIT
3. Caltech
4. Stanford University
5. Princeton University
6. University of Texas
7. Cornell University
8. Columbia University
9. University of Wisconsin
10. University of Washington
11. University of North Carolina
12. University of Pennsylvania
13. Duke University
14. University of Michigan
15. Penn State University
16. University of Southern Cal
17. University of Minnesota
18. University of Utah
19. University of Florida
20. University of Illinois

## Technology Transfers

Top 20 Universities	License Income	Research Expenditures
1. University of Cal Sys	\$ 261,522,000	\$ 2,084,623,00
2. Columbia University	\$ 138,562,416	\$ 311,121,727
3. Dartmouth College	\$ 68,427,222	\$ 91,698,082
4. Florida State	\$ 67,497,034	\$ 136,284,150
5. Stanford University	\$ 34,603,000	\$ 444,274,655
6. MIT	\$ 30,234,664	\$ 727,600,000
7. Univ. of Washington	\$ 30,212,714	\$ 652,100,000
8. Univ. of Pennsylvania	\$ 26,493,392	\$ 529,554,951
9. Univ. of Florida	\$ 26,267,649	\$ 294,700,000
10. Georgetown Univ.	\$ 26,000,000	\$ 123,000,000
11. Michigan State Univ.	\$ 25,721,000	\$ 227,734,000
12. Caltech	\$ 23,660,000	\$ 376,000,000
13. Univ. of Wisconsin-M	\$ 22,790,000	\$ 554,361,000
14. Univ. of Minnesota	\$ 22,689,725	\$ 411,380,000
15. SUNY system	\$ 16,486,080	\$ 448,525,000
16. John Hopkins Univ.	\$ 14,375,716	\$ 1,033,801,604
17. Univ. of Rochester	\$ 13,399,748	\$ 204,050,000
18. Harvard Univ.	\$ 12,194,919	\$ 430,780,000
19. Emory Univ.	\$ 10,671,922	\$ 217,400,000
20. Baylor Medicine	\$ 9,415,332	\$ 288,423,559

## Our Research Universities Have Best Year Ever For Grant and Research Awards

NSF selects USC for nation's Industry/University Cooperative Research Center for Fuel Cells. The National Science Foundation has selected the USC's College of Engineering and Information Technology to help lead the nation's fuel cell research initiative and develop technology to commercialize the use of fuel cells by industry. USC will be the nation's first Industry/University Cooperative Research Center for Fuel Cells.

**Combined, our three research universities produced almost 400 million dollars in grants and research funding for the academic year of 2002-03**

**MUSC \$150,000,000**

**Clemson \$135,000,000\***

**USC \$132,000,000**

**\$427,000,000**

MUSC's economic impact was estimated at \$1.6 BILLION FOR FY 2002. A new economic impact study measures the increase in the tri-county's economic activity attributable to the presence of the Medical University of South Carolina. More than 29,362 jobs are attributable to the existence of the university, the university hospital authority (medical center) and the University Medical Associates (the faculty practice plan).

## The next economy is growing in South Carolina

Biotech will be one of the clusters that the Department of Commerce targets for our state. South Carolina also received approval to officially join the Bio Association. There will be more to come on this exciting news. This effort is being lead by Karl Kelly with the Greenwood Biotech Incubator.

Premier Peter Beattie met with

Governor Sanford to continue the Sister State relationship between South Carolina and Queensland and to team on biotech. He brought with him a number of high ranking governmental and business leaders to meet with friends who were SC's delegates two years ago to his state.

The Palmetto Institute has recently mailed out CD-ROMs which present

their mission in very clear terms, which is to increase the wealth of all South Carolinians. If you have not received a copy, please e-mail Jim Fields, Executive Director for the Institute. [www.palmettoinstitute.org](http://www.palmettoinstitute.org)

**Have You Ordered Your New Technology Auto TAG Yet?**



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Phone: 803-748-1323  
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Email: [hightech@sctech.org](mailto:hightech@sctech.org)

*Terabyte: A unit of computer memory or data storage capacity equal to 1024 gigabytes .....one trillion bytes*



**How Many South Carolinians have been awarded the Nobel Prize? Email your answer to [hightech@sctech.org](mailto:hightech@sctech.org) Winners will be recognized in the next issue of Terabyte and the names will be placed in a hat for the Grand Award....."a New South Carolina Technology Auto License Tag."**

*The South Carolina Technology Alliance is a 501c 3 organization serving South Carolina, both inside and outside our borders and around the world.*

## Technology Organizations that are making a difference across South Carolina and the Region

### Upstate Entrepreneurialism and Technology Groups Gaining Momentum

Bob DeGarmo, Caron St. John, and Jeff Papenfus are leading the charge for the Upstate Council for Entrepreneurial Development, while Phillip Yano is making super progress with the Greenville-Spartanburg-Anderson Technology Council. There are activities taking place all over the area. Some have to do with mentoring new start-up companies, developing new web-sites, project management courses, as well as, sponsoring various outreach programs.

### C3 working with others on Clemson Auto Research

The economic impact of this project

will benefit all South Carolinians and the businesses that will develop around this Center of Excellence will produce thousands of jobs when completed.

### Mayor Bob's Midlands Technology Leadership Council making good headway

The Mayor has recruited the who's who of the Midlands business community to join him as members of his council. There have already been three meetings with the executive committee who will be setting the goals and objectives for this year.

### CTEC continues informative summer series for entrepreneurs

Attendance for the summer series has been very impressive. The programs have included forums, panels

and speakers, who are dealing with the day-to-day challenges of the high tech entrepreneurs.

### ThinkTec develops 2004 strategy and assigns working committees, impressive plans for the year.

### South Carolina Technology Alliance Has Strong Year

The Alliance was one of the day-to-day leaders and heavily involved in the development of the South Carolina Venture Capital Investment Act. The Alliance served as the chairman of the Venture Capital section of Gov. Sanford's Economic Development Plan, as well as, served on the knowledge-based economic section of the report. For a copy of the Governor's Economic Development Plan, go to [www.sctech.org](http://www.sctech.org) and scroll down to SC Technology Act. Click and open highlights for 2003.