

Fall 2014

The Infosys TIMES, Fall 2014

St. Cloud State University

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INFORMATION SYSTEMS
ST. CLOUD STATE UNIVERSITY

NEWSLETTER

IS Department Recent Highlights

The department has put the spotlight on some programs and opportunity for students in the department. The list below are some of the highlights offered by the department:

- Enrollment increased over 355% (48 in 2008 to 170 in 2014)
- New Degree/Certificate Programs
 - M.S. in Information Assurance program (first interdisciplinary graduate program at SCSU)
 - 5 year B.S./M.S. program
 - Business Intelligence certificate program.
 - Information Assurance certificate program
 - 3+2 program with Shanghai University of Engineering Science and Xi'an University of Technology, China.
- Curriculum revision - Latest curriculum in IS
- Maverick Internship program
- Center for Information Assurance Studies.
- NSF STEM Scholarships - \$850,000
- Industry Partner Program
- Annual Security Conference
- External Grants over 5 million.
- Research Publications over 100
- Latest IS curriculum in Mid-West.



CENTENNIAL HALL, ST. CLOUD STATE UNIVERSITY

IS Celebrates New Office Space and Staff!

The Information Systems department hosted a reception celebrating the re-opening of a fully dedicated IS department office, CH 444. Interim Provost, Dr. Richard Green and interim Dean of the Herberger School of Business, Dr. Walter Roettger together with faculty, students, and staff joined in the grand re-opening ceremonies. A chocolate fountain and other treats were offered as Department Chair, Dr. Susantha Herath introduced Ms. Kelley Hennen as the new office manager. Ms. Hennen stated that she is looking forward to serving the department and working closely with students and faculty. Dr. Herath extended many thanks to the faculty, students, alumni, industry partners and external funding agencies “that work with us; because of this support our programs are growing”. Dr. Herath acknowledged the other departments in Herberger Business School, as they have provided office support to the IS department during the last 3 years. An invitation was extended for anyone who missed the event to visit the fourth floor of Centennial Hall and to take a minute to stop by CH 444 to say hello.



Reopening Ceremony: Dr. Richard Green, Dr. Susantha Herath and Dr. Walter Roettger (Left to Right)

5-Years Fast-Track

A unique and remarkable opportunity exists for IS majors -- it is the 5-year B.S. / M.S. program. The 5-year B.S. / M.S. is an accelerated, rigorous program option available to outstanding undergraduates with exceptional ability. Students in the five-year program may complete the B.S. in Information Systems and M.S. in Information Assurance with nine fewer required semester credits than if they chose the traditional track (141 credits versus 150 credits). Upon completion of the required undergraduate core courses, those students possessing an undergraduate 3.1 GPA or above may apply for early conditional admission to graduate school. If this opportunity is one you are considering, speak with your academic advisor as soon as possible. Students interested in the five-year program are encouraged to begin discussion with the Department Chair early in their sophomore year.



OFFICE OF IS DEPARTMENT IN CENTENNIAL

Industry Partner Program

Spring 2015, a logistics technology project partnership with Telcomm Construction will commence as part of the Industry Partner Program (IPP). The Information Systems (IPP) was initiated in 2012, to pro-

vide collaboration, consultation, networking and training for industry, faculty, and IS students. IPP supports local industry and business with needed technology, knowledge, and trained personnel, and provides enhanced student learning experiences to prepare IS students for the corporate world.

By participating in IPP, industry partners benefit in multiple ways. Sponsoring student scholarships benefits employers by enhancing their corporate visibility and image on campus as well as in the community at large. Industry partners are invited into the classroom to share best practices and to provide real-world insights to students. This interaction allows students a glimpse into the partner's corporate culture for future employment consideration. By providing internships, industry partners gain an excellent recruitment opportunity. IPP's goal is that our IS students are well prepared and highly sought by industry to fill IT positions. IPP builds strong connections with business communities so that IS students have solid opportunities to work as IT professionals.

Students Tour Stearns County Courthouse



Stearns County Courthouse, St. Cloud

On October 2, 2014, Judge John Scherer spoke to the Introduction to Computer Forensics students from SCSU. He gave a concise back-

ground of criminal and digital forensics in Stearns County and answered a variety of questions. Judge Scherer was quick to acknowledge that the use of digital forensics and the need for qualified digital forensics examiners is growing due to the use of digital devices in the planning and commission of crime. Some of the interesting topics discussed included the need of a warrant to be issued prior to searching one's mobile device, the precautions to be taken when seizing and analyzing a digital device for evidence, the probabilities of recovering substantial data from erased or damaged media, court procedures involved in dealing with digital evidence, duties and restrictions imposed on the jury during such trials, and the admissibility of digital evidence to a court of law. Faculty stated "We thank Judge John Scherer for his time, consideration, and willingness to openly share his knowledge and savoir-faire with us."

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"The department has 22% female students currently"
 —○—

"St. Cloud State University (SCSU) has been designated as a National Center of Academic Excellence in Information Assurance Education (CAEIAE) for academic years 2009-2014 by the National Security Agency (NSA)"



Message from Department Chair



DR. SUSANTHA
HERATH

On behalf of the IS department, I am happy to share this inaugural issue of the IS newsletter with you. Adding a new tradition to the Department, the newsletter will connect, inform and share topics of interests to the IS community each semester.

The IS department started the first computing program at SCSU, and we are celebrating our 41st anniversary this year. We have undergone a remarkable transformation concurrently with the ongoing revolution in information technology. We offer an undergraduate degree in information systems, a graduate degree in information assurance and two undergraduate certificate programs. Our IS degree programs have become the most extensive and comprehensive programs of its kind in Minnesota and offers the most up-to-date curriculum in the nation.

We are enjoying a steady growth of majors despite the university wide declines in enrollment. The IS major has grown over 355% from 2008 to 2014. Employment opportunities for graduates are steadily on the rise. Salaries for IS graduates are among the highest in the Herberger Business

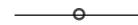
School (HBS), and our fall 2014 graduates were offered \$78,000 as starting salary.

Our faculty are dedicated to excellence in teaching, research, and continuing education in new technologies. We bring the most funding to HBS with external grants and direct the nationally accredited Center of Excellence in Information Assurance. Our department is involved in many community collaborations and partnerships. The Industry Partner Program offers students strong connections with business communities. As an SAP University Alliance member our faculty and students are engaged in SAP technology training programs and have access to the resources of the worldwide SAP community. We host the Maverick Software Engineering program, an on-campus internship program, the first-of-its-kind industrial partnership at SCSU, and annually host a national-level security conference.

We continue to strengthen student support structures and interdisciplinary collaborations along the boundaries of different colleges, schools and programs; enhance faculty and peer mentoring; develop multidisciplinary research groups with exceptional advising, mentoring and tutoring; as well as provide directions and job skills for a successful life after

graduation, either in graduate school or in the professional workforce.

This year we look forward to improving our programs further and to adding new programs as needed to serve our future leaders better. As information systems continue to play a vital role in the day to day lives of folks everywhere, we expect our graduates to be optimally positioned to be fantastic leaders in this revolution.



Project Management Seminar

On October 16, 2014, a Project Management (PM) Re-certification seminar was held at SCSU, for certified PM professionals and project management students. The event was sponsored by Project Management Institute - Central Minnesota and North Dakota chapter. Participants had pizza and the opportunity to network prior to the seminar. Ms. Maclore Christensen, from Accenture presented "Teamwork: Delivering valuable, working products." Ms. Christensen led the approximately 50 students, faculty, and professionals in attendance through interactive exercises. The activities highlighted how teams required teamwork, the need for understanding other's views, and the importance of defining goals.



NSF STEM Scholarship

Sixteen students were awarded NSF STEM scholarships for 2014, cohort 3, at the award ceremony held November 1, 2014, in Atwood on the St. Cloud State University campus. The following cohort 3 students, Osei Bonsu (IS), Tameka Cannon (IS), Cody Danielson (Computer Science (CS)), Shawn Dillingham (CS), Joseph Foster (CS), Kevin Gysberg (CS), Michael Hauglid (Computer Engineering (CE)), Daniel Hendrickson (IS), Brikken Jensen (IS), Austin Mackedanz (CE), Cody Mathisen (IS), Akeem Saka (IS), William Smith (IS), Steven Vue (IS), Houa Xiong (IS) and Kia Xiong (IS) received



New STEM Scholars

scholarship awards. At the ceremony, three graduating scholars from cohort 2, William Bruggenthies (IS), Bonyeah Warzecha (IS) and Kyung Park (IS) were also recognized.

The ceremony was attended by more than 80 people. Some of the dignitaries in attendance included Mr. Matthew Andrew, SCSU Vice President of University Advancement; Dr. Ester, President of Normandale Community College; Ms. Tarryl Clark, Interim Dean of Sciences, Technology & Math at St. Cloud Technical & Community College; Dr. Williams, Associate Dean for STEM; Dr. Johnson, Director of Pre-College Pipeline Programs; Ms. Addie Turkowski, Director of Career

Services; Faculty and staff from the departments of Information Systems, Computer Science and Computer Engineering; and Scholars' family and friends.

SCSU received a \$600,000 grant from National Science Foundation to award scholarships to computing majors in 2012. In addition, SCSU contributes \$254,000 towards the project. Previously, twenty students received this scholarship now bringing the total number of awards presented by the program to 36. Each recipient receives up to \$18,200 stipend for two years, in addition to up to \$1000 for travel money for attending conferences, \$6000 for a summer internship opportunity in national labs with travel and accommodation allowances. Additionally, the scholars become part of a national mentoring network which provides research and professional development opportunities.

This scholarship program's overall goal is to attract non computing STEM and non-STEM majors into computing, to foster education, research, leadership and professional development of the award recipients by strengthening their student support structure, and to provide the students with direction and the necessary



Matthew Andrew
VP. University Advancement

skills for a successful life after graduation. The management team of the project includes St. Cloud State University faculty, Dr. Susantha Herath, Dr. Jayantha Herath, Dr. Dennis Guster, Dr. Md Mahbub Hossain, and Dr. Rohitha Goonatilake of Texas A&M.

To be eligible for the NSF - STEM scholarship, a student must be a US citizen or permanent resident, demonstrate financial need, be a full time student majoring in Computer Science, Computer Engineering or Information Systems with a 2.75 GPA or above. Preference is given to transfer students from two-year colleges and students from underrepresented groups, including females, students of color, Native Americans and first generation college students. The award requires scholars to maintain a GPA of 3.0 or greater while enrolled in a minimum of 15 credits per semester, to take a 1-credit seminar course, and to graduate from the major within two years.

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The program of IS began under Marketing Department in Spring 1973. In 1977, department changed to Quantitative Methods and Information System(QMIS) and in 1986 name changed from QMIS to BCIS. Finally, in Fall 2009, Department changed from BCIS to IS

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**CONGRATULATIONS TO
THE 22 GRADUATING
IS MAJORS - FALL 2014!!**

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Students Present at IBCIB

On October 9 – 12, 2014 SCSU Information Systems students, Liza Strate and James Niehaus, along with faculty, Dr. Mark Schmidt were in Rapid City, SD for the International Business and Contemporary Issues in Business conference. Liza presented her project “Secured Chiropractic Database” and James presented his project “Configuring a MySQL Database for Efficiency and Security within a Cloud Environment.” Attendees were able to network, collaborate, and share ideas with other professionals about their research. The conference was hosted by Northern State University - Aberdeen, SD. The opportunity to present their student projects at the conference was made available due to a Provost Action Grant awarded CIAS faculty members Dr. Kate Mooney, Dr. Dennis Guster, and Dr. Mark Schmidt.

Dining Etiquette Training

November 7, 2014, eight Information Systems students and two faculty attended the Dining Etiquette Training event organized by Student Development Director, Dr. Mary Soroko. The event provided participants a chance to learn about business customs as they pertain to business meals and business events that include food. Nearly 90 people were in attendance. The 15 industry sponsors, students, faculty, and staff enjoyed a four course meal while learning about mingling techniques, toast making, professional etiquette and proper manners for eating in business settings. SCSU Career services Mr. Andy Ditlevson led the speed networking portion of the event between

employers and students. Students and sponsors were able to network, learn, and consume the delightful cuisine.

Maverick Program

The Maverick on-campus IT Internship Program is the first partnership of its kind on the SCSU campus. The program recruits top information technology students from Computer Sciences, Electrical Engineering, and Information Systems majors to work on software development and testing projects for Symantec Corporation's NetBackup Quality Engineering Teams. Students are typically assigned to project teams that rotate each quarter and are led by a Symantec project manager. Without leaving campus, students gain real-world development and test experience working with cutting-edge technology. As a member of a NetBackup project team, students also strengthen interpersonal and communication skills through team interactions.



DR. JIM Q. CHEN

Maverick Software Consulting also provides training, mentoring, and job placement assistance to prepare students for the job market. Job placement is 100% for students who successfully complete the Maverick program. In some cases, the industry partner hires the students as full time employees upon graduation.

Students are required to work 20 hours a week in the fall and spring semesters and make \$12 per hour. During summers, they can work 40 hours per week. Both domestic and international students can apply. The

on-campus software consulting office is located in Hadley Hall 225.

The program has been so successful that the industrial partners requested expansion of the program from 10 students in 2010 to 21 students in fall 2014. Dr. Jim Q. Chen, professor of Information Systems, is the faculty sponsor and coordinator of Maverick program. He attributed the success of the program to the strong support from both leadership and faculty in Herberger School of Business and College of Science & Engineering.

Office Manager

Ms. Kelley Hennen joined the Information Systems Department as the office manager in



KELLEY HENNEN

July when the department office was newly opened. Prior to coming to SCSU, Kelley worked at United Way of Central Minnesota as the Community Impact Coordinator where she recruited area volunteers to help with the distribution of grant allocations for local non-profits. She also worked as an Information and Referral Specialist for the United Way 2-1-1 Community Help Line. Kelley graduated from SCSU in 2008 with a B.S. in Community Psychology. Before earning her degree, she worked for the American Heart Association as their Administrative Assistant for the Central Minnesota office. Two of Kelley's beliefs are the importance of life-long learning and being available to help others which is why working at SCSU appealed to her. When not at work, Kelley enjoys spending time with family and friends including her two dogs and her cat.

Graduation at last: Where one journey ends another begins



BONYEAH WARZECHA

I will be graduating on December 21, 2014, with a bachelor's degree in Information Systems

and soon after will start a career in the TDP program at UnitedHealth Group's Optum. I am very excited at my achievements and acquiring employment before graduation. Looking back now, my experience here at SCSU has been both exciting and challenging. Along each step of the way, I remained focused and took the initiative to better myself both academically and professionally.

I wanted to be able to find employment soon after graduation. That meant getting a degree in a major that's in high demand. A degree in IS fits the description and seemed like a good fit for me.

I obtained a few scholarships throughout my academic career at SCSU including Alliss, Ruth K. Meyer, and NSF-STEM Scholarships. These scholarships helped me pay for some educational expenses and most importantly, one scholarship in particular, the NSF STEM Scholarship, provided some non-financial benefits. For example, some non-financial benefits included taking on leadership roles, participating in professional career development activities (like resume writing workshops, mock interviews, leadership conferences, etc.), completing internships locally or at a national labs, and so much more. These non-financial benefits also helped me network with peers, gain work experience while in college, improve my interviewing skills, polished my resume, volunteering, etc. It also motivated me to partici-

pate in on-campus extracurricular activities.

I am currently the Professional Career Development Director of the IS Club. As a board member, it is my role to find and book company recruiters and speakers for club visits. These visits give club members a chance to learn about companies, find entry-level jobs or internships, network with recruiters and peers, and use the time to get feedback and advice on how to prepare for the job market.

This summer 2014, I interned at MicroBiologics Inc. in St. Cloud. I worked directly with the Sr. Business Systems & Analytics Manager for the Business Systems & Analytics department. I was tasked with replacing the company's old manual process/system of monitoring and gathering data with an automated process. I received no formal training and had to research and learn everything on my own. I began by researching different software and vendors, selecting the right vendor and software, learning the software, running a series of tests, implementing solutions, and maintaining the new system. In the end, I created a user guide and trained a systems analyst on how to use the new software. This was a very exciting internship experience and I learned a great deal from it.

On Wednesday, November 13, 2014, I received a call from UnitedHealth Group's Optum extending an offer for employment starting in the TDP Program. Before receiving this offer, I underwent two interviews; one at SCSU and the other at the Optum office in Eden Prairie. I knew right away from the first interview that I

would get the job because I was well prepared. My resume showed that I met all of the requirements for the job. For example, my GPA was well above the 3.0 minimum, I participated in extracurricular activities, I was confident in my abilities, and demonstrated that I really wanted to become a part of UnitedHealth Group. During both interviews, I used my leadership skills and internships experiences as a guide to demonstrate my confidence, abilities, and drive to succeed. The bottom line, my journey through SCSU helped guide me in getting this exceptional employment opportunity with UnitedHealth Group. I took the initiative to better myself both academically and professionally so that in the end I could get employment after graduation in a career that was right for me.

Now that I will be graduating from SCSU, my employment at UnitedHealth Group is only the beginning of yet another journey in my professional and academic careers.

Student Presents DSI

Kim Phan, a current MSIA student presented the paper on "Information Security Management Policies and Processes: A Total Security Model" at the 2014 Decision Science Institute Conference, co-authored by Dr. Dien Phan and Dr. Mark Schmidt. The conference was held in Tampa, FL from November 21-25 this year.

"Fact: Enrollment in the Department of Information System increased by 355% from 2008 to 2014"

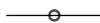
Information Assurance Club



AAKASH BHANDARI
PRESIDENT

With the growth of Information Assurance majors, an IA club was established two years ago. The IA club offers information exchange among

the students and faculty and provides professional networking opportunities. Members meet on Fridays at 2:00 P.M. and invite speakers from industry. The club also hosts pot-luck parties each semester. Mr. Aakash Bhandari, current president of the IA club stated "It is a privilege to assume the presidency of the Information Assurance Club at SCSU and to build a strong professional and social network among students, faculty and industry. I look forward to 2015 with a renewed energy and zeal to improve our efficiency in hosting seminars, presentations, debates and workshops that will help us keep up with the fast growing technology and bring people with similar interests together. Let's make our college life more comfortable and productive together".



Hacking again in Payment Card Processing

By William Knowles, Senior Editor,
InfoSec News

AB Acquisition LLC and Supervalu Inc. are the newest group of retailers that have been hit by security breaches this year. This includes Aaron Brothers, Bartell Hotels, CVS, eBay, Goodwill Industries International Inc., Home Depot, Jimmy Johns, Michaels Stores, Neiman Marcus, Recreational Equipment Inc., Sally Beauty Supply, and Sears.

On September 29, 2014, AB Acquisition LLC, which operates Albertsons stores under Albertson's LLC and ACME Markets, Jewel-Osco, and Shaw's and Star Markets under New Albertson's, Inc., was notified by its third party IT services provider, Supervalu Inc. of a separate, more recent, attempted criminal intrusion seeking to obtain payment card information used in some of its stores. AB Acquisition been informed that a different malware was used in this recently discovered incident than was used in the incident previously announced on August 14, 2014. The investigations into both this incident and the earlier incident are ongoing. Supervalu Inc. (NYSE: SVU) announced on September 29, 2014 that they also experienced a criminal intrusion into the portion of its computer network that processes payment card transactions at Supervalu's Shop 'n Save, Shoppers Food & Pharmacy, four franchised Cub Foods stores in Hastings, Shakopee, Roseville (Har Mar) and White Bear Lake, MN, where implementation of the enhanced protective technology had not yet been completed.

For these four franchised stores, Supervalu Inc. believes that the malware may have been successful in capturing account numbers, and in some cases also the expiration date, other numerical information and/or the cardholder's name, from payment cards used at some checkout lanes during the period of August 27 (at the earliest) through September 21 (at the latest), 2014.

Both companies discovered that, in what it believes to have been late August or early September 2014, an intruder installed different malware into the portion of its computer network that processes payment card transactions (Continued in next page..)

Because the point of sale systems are different across AB Acquisition divisions, Albertsons stores in Arizona, Arkansas, Colorado, Florida, Louisiana, New Mexico, Texas and their two Super Saver Foods Stores in Northern Utah were not impacted by this incident. However, Albertsons stores in Southern California, Idaho, Montana, North Dakota, Nevada, Oregon, Washington, Wyoming and

Southern Utah were impacted. In addition, ACME Markets in Pennsylvania, Maryland, Delaware and New Jersey; Jewel-Osco stores in Iowa, Illinois and Indiana; and Shaw's and Star Markets stores in Maine, Massachusetts, Vermont, New Hampshire and Rhode Island were affected by this new incident.

AB Acquisition LLC and Supervalu Inc. have made no determination that any cardholder data was in fact stolen by the intruder. Given the continuing nature of the investigation, it is possible that time frames, locations, at-risk data, and/or other facts in addition to those described above will be identified in the future.

Both AB Acquisition LLC and Supervalu Inc. customers who used their payment cards at those locations listed above during the relevant time period will receive 12 months of complimentary consumer identity protection services through AllClear ID.

Source: <http://www.infosecnews.org/ab-acquisition-llc-and-supervalu-inc-announce-second-hacking-incident-involving-payment-card-data-processing/#.VINFaYsfNhw>

SAP Integration

St. Cloud State University is first in the MNSCU system to teach SAP software for Enterprise processes. The IS department began offering training and course work incorporating SAP ECC and will be expanding the use of the application in MBA 632, IS 485, IS 484, IS 460, IS 363 and other courses. Students learn Enterprise processes with hand on projects using SAP software provided by SAP University Alliances North America. Some project areas where SAP software is utilized include supply chain, logistics, accounting, project management, analytics, BI, configurations, mobile, and cloud.



"There are students from 18 different countries the department of Information System"



DigiKey Competition

The 2014 edition of the Digi-Key Collegiate Computing Competition (DKC3) took place on October 17, 2014, at Thief River Falls, MN. Twenty-eight teams of four students each (two teams from each department) from 13 area universities were invited. It is notable that SCSU had the only team of Information Systems majors.

These annual competitions are sponsored by DigiKey Corporation (one of the largest North American reseller of electronics) since the year 2000. SCSU-Information Systems has been participating in this contest since 2004, advised by Dr. Paul Safonov.

This year's IS student contenders were: Team "Byte.Me" (Cody Mathisen, Alex Winter, Allen Cook, William Smith), and Team "Const Win" (Kevin Gysberg, Michael Wortman, Rukhshod Abdullaev, Brandon Burggraff).



DIGI-KEY TEAM FROM SCSU

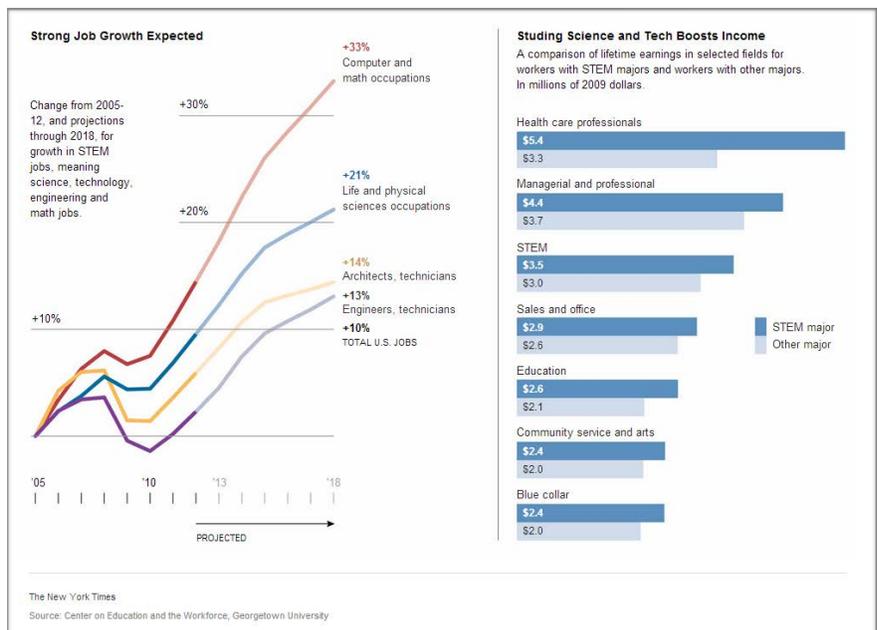
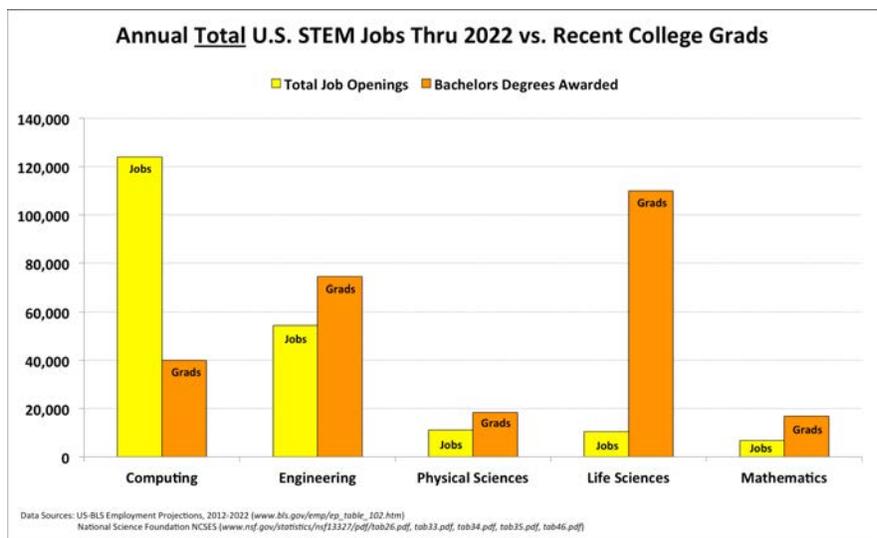
The event was comprised of several activities, including fun Ice Breakers and Blenders, as well as 3 core competition sessions: Short Computing Problems (1.5 Hours), Word Problems (1 Hour), and Long Computing Problems (1 Hour). Before lunch students were invited for an hour-long tour of DigiKey to get familiar with the facility and the culture of the organization.

Published By:
 Department of Information Systems
 Herberger Business School

Employment Projection

Employment indicators show that the decision to major in Computing is a wise and timely choice. Not only is computing fun and empowering but, right now, computing is a leading factor in employment globally. It is expected that Computing majors will have an edge when looking for employment and our majors are in high demand in all employment sectors into the future.

The US- Bureau of Labor Statistics predicts that by 2020 there will be over 3 times more jobs than computing graduates. According to the Center on Education and the Workforce at Georgetown University, the lifetime earnings of workers with a STEM major will be much higher compared to other majors. See the appended graphs below.



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