



\$1.9 BILLION
TOTAL ECONOMIC IMPACT

By the Numbers

The cybersecurity economic impact is greater than hosting 4 Super Bowls or 14 Comic-Cons each year!

7,620
Direct Jobs
14.7% increase*

16,580
Total Jobs Impacted
25% increase*

13%
Projected Cyber Employment Growth
in the next 12 months compared to 2% overall regional job growth

51,000
Technology Specialists Call San Diego Home

Source: CCOE's San Diego Cybersecurity Industry Economic Impact Analysis and Workforce Study, June 2016. *Since 2014 EDC San Diego Cybersecurity Economic Impact Study.

CYBER CENTER OF EXCELLENCE (CCOE)

Founded by a collection of world-class cyber companies with operations in San Diego, the Cyber Center of Excellence is a non-profit dedicated to accelerating the region's cyber economy and positioning it as a global hub of cyber innovation. Capitalizing on San Diego's unique strengths in this growing and future-oriented field, CCOE accelerates the regional economy by:

- Attracting and nurturing talent
- Creating new opportunities for business
- Fostering collaboration in the cyber community

CCOE was created to leverage the abundance of cyber talents and resources currently in place in the San Diego area, enlist local businesses who have a stake in cyber security and the economic vitality of our community, and establish San Diego as a national leader for products and services that will be in high demand across the globe in the years ahead.

SAN DIEGO'S CYBER ECONOMY

The San Diego region is ideally positioned to capitalize on the ever-growing global demand for cybersecurity products and services.

A Vibrant Innovation Economy

San Diego's entrepreneurial environment includes incubators, financiers, experienced service providers and non-profits that support more than 100 firms focused exclusively on cybersecurity.

Education and Research

San Diego's universities and colleges annually graduate 3,000 students in the computer science and engineering fields and support cutting-edge research through resources like the Super Computing Center at UC San Diego.

Department of Defense Presence

San Diego is home to the Navy's Space & Naval Warfare Systems Command (SPAWAR), employing nearly half of all the cybersecurity jobs (3,400) and significantly contributing to R&D in the region.



CCOE BACKGROUND AND VALUE PROPOSITION

- The Cyber Center of Excellence is a non-profit dedicated to accelerating the region's cyber economy and positioning it as a global hub of cyber innovation.
- The organization's founding participants include ESET, Sentek Global, Qualcomm, FICO, iboss, ViaSat, Lockton, San Diego Regional EDC and the United States Navy's Space and Naval Warfare Systems Command (SPAWAR).
- CCOE fulfills its aims through the following programs and initiatives:

Job Board and Internship Program connects the cyber workforce with industry job opportunities, especially to reach military veterans with in-demand cyber skills.

Link2Cyber connects college students, transitioning service members and veterans with career opportunities through industry-led events at San Diego's universities and bases.

University/Industry Roundtables convenes Deans and cyber companies to foster greater alignment between university curriculum and industry needs.

Secure San Diego facilitates collaboration between the cyber industry, academia, local government, utilities, transportation agencies and the military and intelligence community to foster a more secure cyber environment and position San Diego as a global hub of cybersecurity innovation.

Thought Leadership events that bring together San Diego's cyber leaders with global experts, law enforcement and regulatory agencies to educate and further the cybersecurity industry.

Cyber Advocacy provides independent, fact-based, credible sources for educating decision makers.

Research delivers data, analysis and recommendations to policymakers, educational institutions, businesses, talent and key non-profits to encourage regional economic development.

Stakeholder Forums create an open dialog between the cyber industry, innovation sectors, academia and the government allowing for real-time problem solving to challenges facing the industry and quick mobilization around opportunities to accelerate San Diego's cyber cluster.

Aligning the Cyber Community fosters collaboration with the Governor's Military Advisory Council, California Cyber Security Task Force, National Initiative for Cybersecurity Education (NICE), San Diego Cyber Coalition and regional economic sector associations.

CONTACTS

Corporate:

Lisa Easterly
Chief Operating Officer
Cyber Center of Excellence
858.245.6674
lisa.easterly@sdccoe.org

Media:

Kevin Dinino
KCD PR
619.739.4265
Kevin@kcdpr.com

Follow CCOE:



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RADM Kenneth Slaght, USN (ret.)

Current:

- Co-Chair & President, Cyber Center of Excellence
- BoD, NDIA
- BoD, SDMAC
- BoD, SDSU Industry Advisory
- BoD, Point Loma Nazarene Business School

MILITARY Experience:

- VP & GM of Navy/Marine Corps Services Center at General Dynamics
- Commander at SPAWAR
- Commander of the USS FLINT
- Executive Officer of the USS GRIDLEY

EDUCATION:

- United States Naval Academy, Masters Degree in Computer Systems Management

Contact:

- ken.slaght@sdccoe.org

RADM Kenneth D. Slaght, USN (ret.) is the Co-Chair and President of the San Diego Cyber Center Of Excellence (CCOE), a non-profit established to coordinate and enhance the effectiveness and synergy of the regional cyber initiative, capitalizing on our unique strengths to accelerate the regional economy by creating opportunities for business, attracting and nurturing talent.

Previously RADM Slaght served as the Vice President and General Manager, Navy/Marine Corps Services Sector, General Dynamics Information Technology, responsible for providing IT services to the Navy and Marine Corps. Prior to that he was the Commander of the Space and Naval Warfare Systems Command. He was responsible for providing information technology and space systems for naval and joint services. Additionally, he was the chief engineer for developing, delivering and maintaining effective, capable and integrated command, control, communications, computer and intelligence systems (C4I). He was also responsible for engineering and assessing FORCenet, the foundation of the Seapower 21 vision.

During his naval career, RADM Slaght served as Commander of the ammunition ship USS FLINT (AE 32). Other sea duty included tours as Executive Officer aboard the guided missile cruiser USS GRIDLEY (CG 21), Engineer Officer aboard the amphibious ship USS TULARE (LKA 112), Operations Officer aboard the frigate USS EDWARD MCDONNELL (FF 1043), and Combat Information Center Officer aboard the frigate USS GARCIA (FF 1040).

RADM Slaght received his commission in 1970 upon graduation from the United States Naval Academy. RADM Slaght attended the Defense Systems Management College, the Naval Post Graduate School, where he received a Masters Degree in Computer Systems Management, and the Naval Destroyer School. RADM Slaght currently serves on the Boards of the National Defense Industrial Association (NDIA), the San Diego Military Advisory Council (SDMAC), the San Diego State University Industry Advisory Board, and the California Governor's Military Council and co-chairs the National Initiative for Cybersecurity Education (NICE)'s Workforce Committee.



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ANDREW LEE

Current:

- Co-Chair, Cyber Center of Excellence
- CEO, ESET North America
- Founding Member, AVIEN
- Founding Member, AMTSO

Past Experience:

- CTO, K7 Computing

Education:

- M.Sc in Computer Security,
University of Liverpool

Contact:

- andrew.lee@eset.com

Andrew Lee brings to ESET a unique blend of corporate and security expertise. Having served as Chief Research Officer at ESET from 2004 to 2008, Lee was responsible for building ESET's reputation as a world-class research organization. Prior to accepting the role of CEO at ESET in January of 2011, Lee served as Chief Technology Officer for K7 Computing, an antivirus software and Internet security company, where he was responsible for all aspects of K7's technology, leading acquisitions and bringing new products to the market.

Mr. Lee is a founding member of several of the most respected organizations, such as AVIEN and AMTSO, international non-profit associations that focus on addressing the global need for improvement in the objectivity, quality and relevance of anti-malware testing methodologies. A frequent speaker at industry conferences, ISC2 Seminars, AVAR, Virus Bulletin and EICAR, Mr. Lee is a widely published author of articles on antivirus and security and co-authored the "AVIEN Malware Defense Guide" with current ESET researcher David Harley. Andrew Lee holds an MSc degree in Computer Security from the University of Liverpool.



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CHAD NELLEY

Current:

- Foundation President, Cyber Center of Excellence
- EVP Operations, ESET North America

Past Experience:

- VP of Operations and IT, Total Training, Inc.
- Field Marketing Manager, Silicon Graphics Inc.

Education:

- BA in Telecommunications, California State University, Fresno
- Graduate of UCLA Anderson School of Management Executive Program

Contact:

- chad.nelley@eset.com

As Executive Vice President of Operations for ESET North America, Chad has general oversight of Operations to include: Organizational Development, IT, Business Systems, PMO, Real Estate and Facilities, Manufacturing, Procurement, Logistics and Inventory, Community Relations and Philanthropy.

Prior to joining ESET in 2007, Mr. Nelley held the post of Vice President of Operations and IT at Total Training, Inc., a content development firm developing multi-media education products for blue chip software partners such as Adobe, Apple and Microsoft along with other software OEM's. While there Mr. Nelley was instrumental in developing, managing and supporting double and triple digit revenue growth over 7 consecutive years, implementing operational and secure IT/IS infrastructure systems to include building an ERP, CRM, estore and cart solution that drove 60+% of revenues for the company. Mr. Nelley started his technology career with Silicon Graphics Inc., as a Field Marketing Manager for the Southern California region covering San Diego, Imperial and portions of South Orange County. He has also taken on various entrepreneurial endeavors including starting a consultancy practice specializing in Organizational Development, IT/IS Systems and Project Management services.

Mr. Nelley was born and raised in San Diego and maintains a strong interest and connection to the San Diego Community. He is passionate about the region's economic vitality having served on various technology committees and participating in organizations like the SD-CCOE, SOeC and the San Diego Economic Development Corporation. Chad holds a Bachelor of Arts degree in Telecommunications from California State University, Fresno and is a graduate of the UCLA Anderson School of Management Executive Program.



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KRIS VIRTUE

Current:

- Secretary, Cyber Center of Excellence
- Head, Global Information Security and Risk Management, Qualcomm

Past Experience:

- 18+ years at Qualcomm
- Leadership role, information security
- Leadership role, middleware
- Leadership role, data integration

EDUCATION:

- BS in Computer Science, University of California, San Diego
- MA in Architecture Based Enterprise Systems Engineering, University of California, San Diego
- CISSP Certified
- CISM Certified

Contact:

- kvirtue@qualcomm.com

Kris Virtue is Head of Global Information Security and Risk Management at Qualcomm, where he oversees the organization's Cyber Security and Threat Management team. In this role, he has responsibility for incident response, threat intelligence, security monitoring and application security. Mr. Virtue also manages the Qualcomm IT eDiscovery collections team which partners with Qualcomm's litigation department to manage legal hold data collection and preservation. In addition to his security related duties, Mr. Virtue is also responsible for the IT organization supporting Qualcomm's Government Technologies business unit, providing IT service delivery across the stack.

Over his nearly 18 year tenure with Qualcomm, he has held numerous roles within IT, including leadership roles across all aspects of the information security program, middleware and data integration teams. He has extensive experience in security architecture, incident response, compliance, security operations, identity management and security technology.

Mr. Virtue also currently serves on the Board of Directors of the San Diego Cyber Center of Excellence, a non-profit dedicated to accelerating the regional economy by promoting alignment and collaboration within the Cyber community.

Mr. Virtue holds a Bachelor's degree in Computer Science and a Master's degree in Architecture Based Enterprise Systems Engineering from the University of California, San Diego, and is CISSP and CISM certified.



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ERIC BASU

Current:

- Board of Directors, Cyber Center of Excellence
- Founder and CEO, Sentek Global

Past Experience:

- Chief Architect, Alitum
- Consultant, Price Waterhouse Coopers
- Project Manager/IT Consultant, KPMG

Education:

- BS in Molecular Biology, San Jose State University
- MBA, Andersen Graduate School of Management (UCLA)

Contact:

- e.basu@sentekglobal.com

Eric Basu is the founder and CEO for Sentek. He's a former U.S. Navy SEAL Commander who graduated from San Jose State University with a Bachelor of Science in Molecular Biology and holds an MBA from Anderson Graduate School of Management (UCLA).

Mr. Basu holds over 20 years of deep domain experience in project and program management, application development management, IT infrastructure assessments, IT Security audits, and strategic consulting. He has previously served in the roles of Managing Director, Chief Architect, Chief Technology Officer, IT Director, Director Product Management, Project Manager, and Division Leader in various companies and government agencies. Most notable was Mr. Basu's role as Chief Architect of knowledge management portal for Alitum, a consultant for multiple enterprise IT system implementations for Price Waterhouse Coopers, and a project manager/IT consultant for KPMG.

Mr. Basu launched Sentek Global out of his home in 2001 with the goal of founding a firm committed to making a significant and long-standing positive difference for our clients. His leadership is a key reason for the company's perennial listing in the annual Inc. 5,000 list. He was a finalist for Entrepreneur Magazine's Entrepreneur of the Year in 2012 and 2014, and San Diego Business Journal's Most Admired CEO in 2015.



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PAUL MARTINI

Current:

- Board of Directors, Cyber Center of Excellence
- CEO and Co-founder, iboss Cybersecurity
- Member of Cyber Security Subcommittee for CAL OES
- Board, San Diego Economic Development Committee

Past Experience:

- Electrical engineering firm with clients such as Phoenix, The U.S. Navy and Hewlett Packard
- Key contributor, Copper Mountain Networks and Science Applications International Corporation (SAIC)

Education:

- Computer Science degree, University of California, San Diego

Contact:

- paul.martini@iboss.com

As CEO and co-founder of iboss Cybersecurity, Paul Martini pioneered the award-winning iboss Secure Web Gateway (SWG) and has furthered iboss' position as a leading security innovator with the introduction of FireSphere™ Advanced APT Defense.

Prior to founding iboss, Mr. Martini was with an electrical engineering firm where he developed proprietary security solutions for clients such as Phoenix, the U.S. Navy and Hewlett Packard, leading the design and implementation efforts for HP's e-tester used in their TIJ print heads. He was also a key contributor at Copper Mountain Networks and Science Applications International Corporation (SAIC), both of which, launched successful IPO's. Mr. Martini holds a computer science degree from the University of California, San Diego and has had his work published in prestigious scientific journals including, the Journal of Foundations in Computer Science, and Journal of Analytical Biochemistry.

As a recognized security expert, he has been featured in a wide range of publications such as USA Today, Forbes, and CSO magazine. Paul has been recognized for his leadership and innovation, receiving the Ernst Young 2014 Entrepreneur Of The Year™ award in the technology category for San Diego, and one of Goldman Sachs' 100 Most Intriguing Entrepreneurs of 2014. He is committed to the advancement of San Diego as a cyber security hub, and is a member of the Cyber Security Subcommittee for CAL OES (California Office of Emergency Services) and also serves on the board of the San Diego Economic Development Committee.



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PATRICK SULLIVAN

Current:

- DoD Advisor to CCOE Board of Directors, Cyber Center of Excellence
- Executive Director, SPAWAR

Past Experience:

- Project Manager, Design and Development Branch of NOSC
- Project Manager and Principal Investigator, SSC Pacific
- Head of Integrated Circuit Research and Fabrication Branch
- Led the Joint and National Systems Division

Education:

- BS in Electrical and Computer Engineering, University of California, San Diego (UCSD)
- MA in Electrical Engineering and Applied Physics, University of California, San Diego (UCSD)

Contact:

- pat.sullivan@navy.mi

Mr. Patrick M. Sullivan is currently the Executive Director for the Space and Naval Warfare Systems Command. In this role, he shares responsibility for over 9,600 civilian and military personnel and a budget of over \$10 Billion, dedicated to the acquisition, delivery and sustainment of major command, control, communications, computers, intelligence, surveillance, reconnaissance, enterprise information, and space systems for the Department of the Navy.

Mr. Sullivan began his government career in 1991 at the Naval Ocean System Center (NOSC). He entered the Senior Executive Service in July 2006.

From 1991 to 1996, Mr. Sullivan was a project manager for the Design and Development Branch of NOSC, a predecessor of Space and Naval Warfare System Center Pacific (SSC Pacific), where he worked to develop advanced electronic packaging technology.

From 1996 to 2006, Mr. Sullivan led progressively larger and more complex programs, first as a project manager and principal investigator at SSC Pacific for the Integrated Circuit Research and Fabrication Branch, responsible for developing and managing several advanced microelectronic research and development projects. Next, he assumed responsibility as the Head of the Integrated Circuit Research and Fabrication Branch where he was responsible for the Navy's Integrated Circuit Fabrication Facility focused on microelectronic technology development for the strategic space and intelligence communities. He then led the Joint and National Systems Division supplying advanced technology to the intelligence and special operations communities.

In March 2006, Mr. Sullivan was selected to lead the Intelligence, Surveillance, and Reconnaissance (ISR) Department for SSC Pacific. He managed programs to develop capabilities for maritime surveillance and ocean systems, joint and national information systems, intelligence systems, signal exploitation and cryptologic systems, and systems to support information operations and battlespace awareness. He also served as National Lead for SPAWAR's Engineering ISR and Information Operations Competency.

In July of 2010, Mr. Sullivan was selected as the Executive Director for the Program Executive Office for Command, Control, Communications, Computers and Intelligence. In this capacity, he shared responsibility with the Program Executive Officer for acquiring, integrating, executing, and delivering capability of a \$2.5 Billion portfolio supporting the information needs for naval, joint, and coalition warfighters.

Mr. Sullivan received a bachelor's degree in electrical and computer engineering from the University of California, San Diego (UCSD) in 1989 and continued at UCSD to earn his master's degree in electrical engineering and applied physics in 1991. He is a member of the UCSD Electrical and Computer Engineering Industrial Advisory Board and the Acquisition Professional Community.



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SCOTT ZOLDI

Current:

- Board of Directors, Cyber Center of Excellence
- Chief Analytics Officer, FICO

Education:

- Ph.D. Theoretical and Computational Physics, Duke University

Contact:

- scottzoldi@fico.com

Scott Zoldi is Chief Analytics Officer at FICO responsible for the analytic development of FICO's product and technology solutions, including the FICO™ Falcon® Fraud Manager product which protects about two-thirds of the world's payment card transactions from fraud. While at FICO, Scott has been responsible for authoring 63 analytic patents with 35 patents granted and 28 in process.

Scott is actively involved in the development of new analytic products and Big Data analytics applications, many of which leverage new streaming analytic innovations such as adaptive analytics, collaborative profiling, and self-calibrating analytics.

Scott is most recently focused on the applications of streaming self-learning analytics for real-time detection of Cyber Security attack. Scott received his Ph.D. in theoretical and computational physics from Duke University.



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