**Assembly Committee on
Higher Education**
Jose Medina, Chair

**Assembly Select Committee
on Cybersecurity**
Jacqui Irwin, Chair

Joint Legislative Oversight Hearing
Cybersecurity Education and the Needs of the Workforce

II. Overview of Cybersecurity Needs in the State and Potential Role of the Segments

• Hans Johnson, Director Higher Education Center & Senior Fellow, Public Policy Institute of California

Hans Johnson, Ph.D., is director of the Higher Education Center and a senior fellow at the Public Policy Institute of California (PPIC). As center director, he works with a team of researchers to identify policies that can make higher educa¬tion policy more successful and sustainable. His own research focuses on improving college access and completion.

He frequently presents his work to policymakers and higher education officials, and he serves as a technical advisor to many organizations seeking to improve college graduation rates, address workforce needs, and engage in long-term capacity planning. His other areas of expertise include international and domestic migration, housing in California, and population projections. Previously, he served as research director at PPIC.

Before joining PPIC, he worked as a demographer at the California Research Bureau and at the California Department of Finance. He holds a PhD in demography and a master's degree in biostatistics from the University of California, Berkeley.

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III. Cybersecurity Employment Needs of Public and Private Sectors

• Amy Tong, Director, California Department of Technology

As the Director and State Chief Information Officer (CIO), Ms. Tong is responsible for advising the Governor on the strategic management and direction of the state's Information Technology (IT) resources. She is also responsible for establishing and implementing state IT strategic plans, policies, standards and enterprise architecture while minimizing overlap, redundancy and cost to the state by promoting the efficient and effective use of IT.

Ms. Tong has over 22 years of business, technology, and management experience in the public sector. Prior to being appointed director of CDT, she served as the Chief Deputy Director and Agency Chief Information Officer in the Office of Systems Integration at the California Health and Human Services Agency, Deputy Director and Chief Information Officer at California Lottery, Chief Technology Officer at Board of Equalization; Chief of the Data Center at California Public Employees' Retirement System; and was the acting CIO at the Water Resources Control Board. Ms. Tong has a Bachelor of Science degree in Management Information System (MIS) and a Master of Business Administration (MBA) from California State University, Sacramento.

• Richard Gillihan, Director, CalHR

Richard Gillihan is the Director of the California Department of Human Resources (CalHR). He was appointed to the post by Governor Edmund G. Brown Jr. in October 2014. CalHR was created on July 1, 2012 by Governor Brown's Reorganization Plan Number 1 of 2011. CalHR is responsible for all issues related to labor relations and collective bargaining; employee salaries and benefits; job classifications, civil rights, training, exams, recruitment and retention.

Prior to his appointment, Gillihan held several positions at the California Department of Finance since 2002, including program budget manager, assistant program budget manager, chief of information technology operations and consulting and assistant chief and data processing manager at the Office of Technology Review, Oversight and Security.

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III. Cybersecurity Employment Needs of Public and Private Sectors (cntd.)

• **Mike Pettit, Chief Information Officer, Ventura County**

Mr. Pettit provides information technology business alignment, leadership, strategy and guidance to the County of Ventura regarding technology, architecture, policy and practice. He is also responsible for the managerial, professional, technical, and administrative support staff of the Information Technology Services (IT Services) Department. IT Services provides support in the operation of enterprise and departmental information technology systems and the County's more than 7,000 employees.

Mr. Pettit has served the County of Ventura in information technology roles since 2002. Prior to become the CIO he served as Deputy CIO for 5 years. He holds a bachelor of science in Information Technology from Cal Poly San Luis Obispo.

• **Greg Prynn, Senior Director, Corporate Affairs, Cisco Systems**

Greg Prynn is Senior Director, Corporate Affairs, and part of the Corporate Affairs Global Field Operations (GFO). He is responsible for the US, Canada, and Latin America Field Operations, as well as the global Technical Field Engagement team.

Mr. Prynn joined Cisco in 1998, as part of the Global Alliances organization, dedicated to driving alliances with leading technology and professional services companies. After working as an individual contributor on the IBM/EDS team, Mr. Prynn was promoted to managing the EDS relationship. He then established the strategic alliance relationship with Accenture which later culminated in Cisco's first virtual joint venture. As the Senior Director, New Alliances and Markets, Mr. Prynn established and extended multiple new alliance relationships for Cisco on a global basis. These alliances include such global leaders as Apple, Fujitsu (Japan), Fujitsu-Siemens (Germany), Intel, Wipro (India), and Rockwell Automation. In total these relationships generated more than $1 billion in revenue. Mr. Prynn also served as Senior Director, Industry Solutions Group – Ecosystems responsible for building, developing and leading ecosystems advancement efforts to obtain sustained competitive market advantage.

Mr. Prynn holds a Bachelor of Science degree in Electrical Engineering from the University of Illinois, Champaign-Urbana, Illinois, and a Masters in Business Administration from the Southern Methodist University in Dallas, Texas.

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IV. Postsecondary Education Institutions' Approach to Cybersecurity Education

• Jesse Goldhammer, Associate Dean, School of Information, University of California, Berkeley

Jesse Goldhammer, Ph.D., is Associate Dean of Business Development and Strategy at UC Berkeley's School of Information (I School). He fosters cross-campus collaborations and external partnerships to expand the impact of the I School's programs, including its new Center for Long-Term Cybersecurity. Prior to working at UC Berkeley, he was a principal at Monitor Deloitte, where he helped governments apply innovation tools and techniques to their hardest challenges; such as, building cyber intelligence analysis programs. He is a published expert in scenario planning and a specialist in the dynamics of illicit networks. He is a co-author of "Deviant Globalization: Black Market Economy in the 21st Century" (Bloomsbury Academic: 2011). He holds a Ph.D. in Political Science from UC Berkeley.

• Bill Britton, Vice President of Information Technology and Chief Information Officer at California Polytechnic State University, San Luis Obispo

William J. "Bill" Britton is the Vice President of Information Technology and Chief Information Officer (CIO) at California Polytechnic State University, San Luis Obispo. As chief technologist, he's responsible for managing the university's information technology enterprise, while also building the Cybersecurity Center into a nationally-prominent education and research facility. Throughout his career, Britton has worked to research, develop, and implement new technologies. From the inception of "cyber," he has been on the forefront of developing new cybersecurity concepts.

Before joining Cal Poly, Britton spent 3 years with Parsons, developing cyber strategy tools and processes for government, civil, and critical infrastructure clients. He was first introduced to cybersecurity during his 20-year career as an Intelligence Officer and an Electronic Warfare Officer in the United States Air Force. During his time with the Air Force, Britton became Director of Mission Planning, a technology-driven role that highlighted his skills as a self-starter and risk-taker. Britton has a Master's Certificate in Program Management from Villanova University, a Master's degree in Strategic Intelligence from Joint Military Intelligence College, a Master's degree in History from California State University, Stanislaus, and a Bachelor's degree in Political Science from Elon University.

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IV. Postsecondary Education Institutions' Approach to Cybersecurity Education (cntd.)

• Stephen Wright, Director & Sector Navigator Information Communications Technologies and Digital Media, California Community Colleges

Stephen "Steve" Wright's, role since 2013 in the Doing What Matters program allows him to combine his business experience with the California Community College system to meet the human resource needs of hi-tech workforce.

Currently his team of ten Deputy Sector Navigators cover the 114 California Community Colleges working with faculty, administration and regional businesses associated with each college. With over three million dollars in direct grants and over forty million dollars in collaborative grant involvement activities, the team benefits from an enterprise market research and product development approach to repositioning the CCC rich and diverse curriculum for targeted, market-based needs.

Wright actively participates on the Board for SynED.org working to evolve educational options in workforce preparation for students. Wright is a frequent speaker at educational, government affairs and technology events.

Wright earned his Bachelor's degree in Zoology from North Carolina State University. He earned his MBA. in Strategic Planning from the George L. Graziadio School of Business and Management at Pepperdine University. Wright later earned his MS in Telecommunications from Southern Methodist University. In 2008, Wright earned a Project Management Professional Certificate from the Project Management Institute.

• Donna Wood, Educator & Community Manager, California CyberHub Information and Communications Technologies & Digital Media, Doing What Matters for Jobs and the Economy

Donna serves as a CTE Educator in Riverside, CA at Canyon Springs High School. She provides UC a-g college articulated instruction in CIS and Cybersecurity, coaching five CyberPatriot Academic teams in the AFA CyberPatriot National Competition.

In service to the state of California, she serves as the California CyberHub Community Manager providing leadership in the collaborative efforts of ICT educators, business partners, and civic partners throughout the state. She holds a Master's Degree in Workforce Education Development, graduating summa cum laude (top 7% of her class) and was honored as Riverside County Teacher of the Year in 2014.

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• **Chris Simpson, Academic Director, Cyber Security and Information Assurance
Program, National University**

Chris Simpson is the Director for the National University Center for Cyber Security and
Information Assurance a NSA/DHS Center of Academic Excellence in Cyber Defense
Education. He is also the CEO of Bright Moon Security, a cybersecurity consulting
company with a focus on cloud security.

Mr. Chris Simpson retired from the U.S. Navy in October 2009 after 27 years of service.
He has extensive experience as an Information Assurance Manager including a tour as
the Information Assurance Manager (IAM) for Commander, Combined Forces
Command Afghanistan. During his last Navy tour, he served as the N6
(Communications and Information Systems Officer), Knowledge Manager and
Information Assurance Manager for the USS BOXER Expeditionary Strike Group (ESG)
where he deployed to the Arabian Gulf, participating in OIF/OEF.

Mr. Simpson holds a Bachelor of Sciences degree in Computer and Information Science
(CIS) from the University of Maryland and a Master of Science degree in Information
Security and Assurance from George Mason University. He is currently enrolled in the
Doctor of Science Program at Dakota State University. His certifications include
Computer and Information Systems Security Professional (CISSP), Cloud Security
Alliance Certificate of Cloud Security Knowledge (CCSK), Navy Master Training
Specialist and the KM Institute Certified Knowledge Manager.

Chris is the Past President of the San Diego Chapter of the Information Systems
Security Association.

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V. Opportunities to Partner

• James Stanger, PhD, Chief Technology Evangelist, CompTIA

Dr. Stanger is a respected authority in security, open source, network administration, and IT certification. He has consulted with corporations, governments and learning institutions worldwide for over 20 years. Organizations include IBM, Symantec, the Scottish Qualifications Authority (SQA), the United Arab Emirates Cultural Division, the Open University (UK), the U.S. Department of State, Mesei University, the University of Phoenix, and the Business Professionals of America (BPA). He has developed IT-based education and certifiication programs used around the world.

James has published books and articles with O'Reilley, Sybex, Eselvier, Linux Pro Magazine, and Admin Magazine, and many others concerning security, Linux, Web technologies, and IT support. His writings have been translated in over a dozen languages.

He is also a respected educator, having created education events and Webcasts to audiences worldwide since the 1990s. He has designed and taught both traditional and on-line courses, and is also an award-winning blogger and social media consultant. He regularly speaks at events worldwide.

Currently, Dr. Stanger is Chief Technology Evangelist at CompTIA, where he determines the direction and strategy for its certifications. CompTIA is the world's largest vendor-neutral certification body, offering certifications such as A+, Network+, Security+, and CSA+. He lives and plays in the Puget Sound area of the United States.