BayICT Partnership Quarterly Report
Q1 2021
May 14, 2021
March 5, 2021 Quarterly Meeting Recording Link

The first quarter BayICT Partnership meeting focused on emerging ICT workforce trends after an update on partnership activities and outcomes.

Q1 2021 Highlights

- BayICT Tech Talks

The Tech Talks continued adding job roles and preparation beyond cybersecurity.

1/19/21	Matt Shelton	Director of Technical Risk and Intelligence	FireEye	PT intelligence, anatomy of attacks, breach response
2/1/21	Bharani Rajakumar	CEO	TRANSFRVR	VR/XR careers
2/16/21	Krishnan Chellakarai	CISO	Gilead	Infosec roles for Life sciences, Strategy and Risk management
3/1/21	Nathanael Iversen	Chief Evangelist	Illumio	Make Money, Make a Difference in Technical Sales
3/16/21	Lucia Milica Steve Booth Olivia Herriford	Cybersecurity Mentoring Programs	NextGen Cyber Talent and BayICT Partnership	Mentorship programs that connect aspiring and accomplished InfoSec professionals

- Work-based Learning Partnerships

Partnerships with **International Consortium of Minority Cybersecurity Professionals** and **NextGen Cyber Talent** collaborated with the BACCC to connect Bay Region ICT students with employers and industry professionals and training

- **International Consortium of Minority Cybersecurity Professionals**
  - SANS and Coursera certificate training
  - Mentors and guest speakers
- **NextGen Cyber Talent**
  - BayICT Tech Talk speakers
  - Began offering SIEM training for students Jan 2021
  - Launched Internship/job matching - Feb 2021

- Cloud Computing KSAs and Curriculum

Cloud computing courses and certificate programs have been implemented or are under development at 6 colleges.

College	Program	Courses
Canada	Cloud Computing Certificate of Achievement	Introduction to Cloud Computing
		Database Essentials in the Cloud
		Cloud Security
Canada		Cloud Compute Engines
CCSF	In approval process	AWS Cloud Practitioner
		Microsoft Azure Certifications
CSM		Cloud Security Fundamentals
		Introduction to Cloud Computing
		Introduction to Cloud Computing
De Anza		Fundamentals of Large-Scale Cloud Computing
		Managing Cloud Projects
		Cloud Security Fundamentals
Foothill	Certificate of Achievement in Cloud Computing	Cloud Infrastructure and Services
		Introduction to Cloud Computing in Amazon Web Services
		Database Essentials in Amazon Web Services
		Compute Engines in Amazon Web Services
		Security in Amazon Web Services
		AWS Cloud Practitioner Certification Prep
		AWS Certified Solutions Architect Associate Prep

Las Positas	Cloud Computing Certificate of Achievement	Cloud Infrastructure: CompTIA Cloud+
		Introduction to Cloud Computing
		Database Essentials in the Cloud
		Compute Engines for Cloud Computing
		Security Services in the Cloud
		AWS Cloud Practitioner Certification Prep
		AWS Academy Cloud Solutions Architecture Certification Prep
Merritt		Cloud Security Fundamentals
		Administering Cloud Services and Containers
Monterey Peninsula		Amazon Cloud Concepts
Ohlone		Cloud Infrastructure and Services
		Cloud Security Fundamentals
SRJC		Intro Virtualization and Cloud Computing

- o BayICT Partnership KSAs are being adopted by the California Division of Apprenticeship standards as Minimum Industry Training Criteria for Cloud Operations Specialist

- BayICT.org, the BayICT portal expanded to include Faculty curriculum resources

- ICT-DM short duration reskill/upskill programs More information.
  - 12 programs recently started (see BayICT.org)
    - o 9 at College of Marin (260 enrollments)
    - o 3 at Cabrillo College (55 enrollments)
  - Worked with EDD/CalJobs to
    - o Clarify policy around ETPL listings
    - o Identify additional required knowledge
    - o Identify needed policy changes
  - Research into development, deployment, and outcomes for pilot programs

Emerging Workforce Trend: Blue Collar AI

AI and cybersecurity have the largest talent gaps in ICT. Aaron Burciaga, Vice President of Analytics and Artificial Intelligence for ECS, presented his findings on the need for a Blue Collar AI workforce. There is growing demand for data farmers (data creation), data miners (data collection), and data welders (data organization and presentation) who support data architects and scientists. Blue Collar AI skills can be developed in community college career education with pathways to 4-year programs.

The BACCC was introduced to intel's AI for Future Workforce Program by faculty at Foothill College, designed for students from employability education institutions (e.g. Community Colleges, Vocational schools). The program offers institutions 3 proogressive modules of curriculum:

- Appetizer: Courses that introduce non-technical and technical students to AI across all disciplines
- Electives: Courses to implement Into existing IT/Computer Science or equivalent curriculum
- Core: AI Associate Degree

Exploration into implementation of the Intel program at Bay Area colleges is underway.

The next BayICT Partnership meeting is scheduled for June 29, 2021, 9:30 - 11:00.

Respectfully,

Richard Grotegut
Olivia Herriford
Ray Kaupp
BACCC Regional Directors, Employer Engagement, ICT Digital Media

Appendix: BayICT Partnership

Q1 2021 Meeting Registrants/Attendees

Business & Industry Leadership Team (BILT)

Carlo	Tortora Brayda	CEO and President	Gorilla ICT
Tony	Zirnoon	Founder / CEO	Human Capital Ventures Corp.
Kim	Yohannan	Americas Manager, Cybersecurity Academy	Palo Alto Networks
Dave	Romney		MC Corp
Krishnan	Chellakarai	CISO	Gilead
Aaron	Burciaga	VP, Analytics & AI	ECS Tech
Kristin	Gomes		Acertify
Virginia	Mattingly		ECS Tech
Jimmy	Sanders		Netflix
Charles	Coaxum	CEO	Kenna Security

Workforce Development

Jennifer	Cheyer	Program Manager	NOVA Works
Moises	Dorado	Program Manager	NOVA Works
Ashleigh	Smallwood		Oakland Chamber of Commerce
Stephen	Baiter		East Bay Economic Development
Michael	Katz		East Bay Works
Luther	Jackson		NOVA Works
Dean	Maffie		Job Train Works
Lelan	Anders		NOVA Works
Sharadon	Smith		NOVA Works
Samantha	Miller		Alameda County Workforce Dev Board

Community Based Organizations

Nina	Scott		Rubicon Programs
Alissa	Friedman		Opportunity Junction
Vanessa	Russell	Executive Director	Love Never Fails

Bay Area Community Colleges

Terri	Oropeza	CIS Faculty	Cabrillo College
Richard	Grotegut	RD ICT-DM	BACCC
Ray	Kaupp	RD ICT-DM	BACCC

Olivia	Herriford	RD ICT-DM	BACCC
Nicole	Kelly	RD Global Trade	BACCC
Donald	Laird	CIS Department Chair	SRJC
Mike	Murphy	CIS Faculty	Foothill College