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| **Break Out Session Name: Computer Information Systems (CIS) – Programming & Computer Information Systems (CIS) Cyber Security** |
| **Date: October 23, 2019 Industry Contacts** |
| Name & PositionKasey Nguyen, CIS Professor | Name & PositionJahi Garner, Instructor, Palm Middle School |
| Name & PositionGail Caros , Integration Partners | Name & PositionSusanne Mata, Regional Director, Employer EngagementICT & Digital MediaInland Empire/Desert Region |
| Name & PositionDonna Woods, Cyber Pathway Instructor | Name & Position |
| **Advisory Questions for Industry** |
| **What is your recommendation for cloud education platform: AWS, Microsoft, Google, combination of the listed products or others?**-Look at programs already implemented at other schools. -Microsoft is a must -securing the cloud very important Donna: Microsoft, Azure, Security/Cloud Based |
| **What is your recommendation for iOS programming curriculum?****-**SharePoint**-**tool kits available but still need to know Java etc. -a lot of python based but improving  |
| **How do foresee employment in the areas of cloud, iOS development, web app development, IOT administration and cybersecurity? Explain**-There are opportunities developing now in the area (CSU San Bernardino) -iOS development highly in demand in the next six years like app testing (thinking of creating a certificate for this) -iOS many in San Diego and Orange County -There are many jobs in general in larger coastal cities (LA, Orange County, San Diego) -Logistic area jobs in this area (more in the engineering department) -Donna: 200% jobs in demand, framework, swift 4 or higher |
| **What type of skills do you need for cloud, iOS development, web app development, IOT administration and cybersecurity programs?**-organization and leadership are important-logistics for this area -Swift language -Python language- Donna: IOT, Cloud security, app testing, SharePoint, Java knowledge for android development |
| **What type of tools or resources do you recommend for cloud, iOS development, web app development, IOT administration and cybersecurity programs?**-Python application-Donna: IOT, smart device, managing/configuring/implement |
| **How do you foresee employment in the areas Augmented Reality (AR) development, Mechatronics: automation, AI, robotics? Should MVC implement these programs for employment needs? Explain.**-contacting the engineering department because there are opportunities for data and logistics-see this becoming more important as the technology gets better - Donna: logistics, troubleshoot systems |
| **What type of technical subjects, skills or training should be implemented at MVC? Explain.**-IT -transition for students who are moving from the classroom to the office -Donna: higher level cybersecurity pathway as written and pending |
| **What type of industry certifications do you recommend to the students in Computer Science, Cybersecurity, Programming, System Administration programs?**-look into programs at Chaffey College -Donna: Security, A+, Network + |
| **What type of internship, externship or experience-based projects should students pursue in the areas of Computer Science, Cybersecurity, Programming, System Administration?**Many students can take advantage of internship opportunities available at events and competitions they attend.-Bourne Engineering-opportunities at the county -competitions-Donna: Database security, security planning, network security, action plan (recovery) |
| **What foundational/technical skills are necessary for entry-level positons within your industry?**To have some experience in web development, technology related jobs, or volunteering services |