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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 & Position  Kasey Nguyen, CIS Professor | Name & Position  Jahi Garner, Instructor, Palm Middle School |
| Name & Position  Gail Caros , Integration Partners | Name & Position  Susanne Mata, Regional Director, Employer Engagement  ICT & Digital Media  Inland Empire/Desert Region |
| Name & Position  Donna 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 | | |