*Project Name: | **Merritt College CIS Security Program**

Please enter the name (or a descriptive title) of the specific program seeking support.

*Project Amount ($) | **$14,600.00**

*Project Start Date | **January 26, 2015**

*Project End Date | **December 11, 2015**

*Describe the project for which you are seeking funding (3-5 short sentences)

In collaboration with the Consortium of Information Systems Executives (CISE) partners, Merritt College will offer Infrastructure and Applications Security Programs—AS degree and certificates of achievement. These programs are design to provide best practices and competencies for students to design, install and implement services and applications; manage, and optimize security infrastructure to ensure compliance with security controls; help prevent, detect, investigate and respond to operational security threats and attacks; facilitate security vulnerability assessments, penetration tests and risk assessments; investigate security events and incidents, including forensic analysis; represent security interests on project teams by ensuring security standards and requirements; conduct security research, analysis and review of infrastructure designs to ensure compliance with company security policies; evaluate new products and technologies to protect against existing and emerging security threats; and develop and implement information security policies and procedures.

*Describe the need, problem and/or opportunity addressed by the project. How did you identify the particular need addressed by your proposal? Please provide measurable evidence if applicable.

Amid staff shortage, tech leaders want more computer education in California schools. (Network World May 7, 2014) Leaders of key technology companies including Microsoft, Google, Twitter and Salesforce.com have written to the Governor of California Jerry Brown offering to partner with the state to increase computer education . . . The lack of access in urban and rural schools also creates inequity for students of color, with the result that in the entire state of California, only 74 African Americans and 392 Hispanic Americans took the Advanced Placement Computer Science exam in 2013, the executives wrote in the letter.

*Describe how you will use funds:

Project funds will be used for instructor course preparation and training to deliver NetLAB Virtual assignments for 4 core courses in the Infrastructure and Applications Security Program (513 instructional laboratory hours). Classes are listed below:

PCCD CIS Course #	Title of Merritt Program Course	Lecture/Lab Credits
52	Cloud Security Fundamentals	2 lecture/1 lab
53	Intrusion Detection In-Depth; Compliance, Security, Forensics, and Troubleshooting	1.5 lecture/1.5 lab
55	Hacker Techniques, Exploits, and Incident Handling	2 lecture/1 lab
56	Secure Coding in Java and .Net; Developing Defensible Applications	2 lecture/1 lab
57	Web Application Penetration Testing and Ethical Hacking	2 lecture/1 lab
58	Hacker Guard: Security Baseline Training for IT Administrators and Operations	2 lecture/1 lab
60	Computer Forensics Fundamentals	2 lecture/1 lab
71	Introduction to Information Systems Security	2 lecture/1 lab
72	Systems and Network Administration	2 lecture/1 lab

*Why is this the right time for this project?

The Consortium of Information Systems Executives (CISE) partners are pivotal to the success of Merritt College's Security Programs. Partners have and continue to develop paid internship opportunities for students. Student internships are integral to the core curriculum and extends classroom learning which prepares students for full time employment upon program completion. The programs offers students a career pathway beginning at the secondary level and extending through to the four-year post-secondary level. Students will have options to begin a career and/or continue their education through transfer opportunities, i.e. CSU.

*Describe your organization's ability to implement the project. Please include staff strength and operational & fiscal management.

In concert with the Consortium of Information Systems Executives (CISE) partners, CIS Department CTE Advisory Group, and the project coordinator, CIS Professor and Vice President of Instruction Emerita, have spearheaded the curriculum development, program approval process and continue to guide the launch of the Merritt College Security Programs.

Merritt College is part of the Peralta Community College District and is required to follow all Peralta Board Policies and Procedures related to sound fiscal management include grant funds. Project Coordinator will set up grant budget with Merritt College Business Services Manager. Grant contract will be approved by the Peralta Chancellor and Vice Chancellor of Financial Services.

*What is the most difficult aspect of this project that could affect your success?

Probably obtaining the course control numbers from the State of California Community College Chancellor's Office, Academic Affairs and MIS Offices in order to receive apportionment funding for offering these new classes.

Our industry partners through the Consortium of Information Systems Executives (CISE) partners want us to offer this curriculum immediately to hire qualified IT workers.

*Will you be requiring any resources from your Deputy Sector Navigator (DSN) other than funding for the project? Please explain.

Will seek guidance and advice that assists the implementation of this project and Merritt College's Security Programs.

*Given that you will share your results at the conclusion of your project, what are your plans to make your proposed project available for the NetLAB User Group and for your DSN and how will you increase the effectiveness of your work for the larger community? What would be your target audience?

The collaboration between Merritt College and the Consortium of Information Systems Executives (CISE) partners will share the results of the proposed project with the NetLAB User Group and the BACCC. Including security curriculum. The project will self-assess all activities and request feedback of finds from the larger community. Targeted population: urban students who have minimal success in completing and/or advancing through computer studies and gaining employment that leads to a career in the information technology field.