

\*Project Name:

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

\*Project Amount (\$)

\*Project Start Date

\*Project End Date

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

The OC NetLab Consortium, Coastline, Cypress, and Irvine Valley, represents three levels of CyberSecurity/Networking curriculum and advanced NetLab technology within Orange County. The Consortium would like to pilot the sharing of resources, expertise, training, and support between the three colleges in an effort to develop a model that could be expanded to include other colleges and high schools in the county. Finally, Coastline will host staff development opportunities for faculty and technicians from the OC NetLab Consortium to learn to incorporate existing CSSIA curriculum into their classes and teach technical staff to setup and maintain their own NetLab Pods

\*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.

The problem that is faced by Irvine Valley College, like many colleges, is that they do not have access to current technology, full time faculty, and staff to update old curriculum. Coastline currently has 56 NetLab pods and 5 servers and Cypress has 8 NetLab pods and 2 servers. This proposal is based on making available NetLab access to Irvine Valley College through the sharing of resources. Coastline and Cypress will provide access to one course each using NetLab as the virtual lab environment and provide technical support for Irvine Valley. In addition, Coastline will provide professional development open to all colleges in Orange County focusing on incorporating existing curriculum developed by CSSIA and other federally funded projects. Funds for Cypress will expand their existing NetLab setup and technical support for Irvine Valley, and funds for Coastline will partially pay for NetLab capacity building, technical support for Irvine Valley, and professional development. Coastline will be matching grant funds with (\$30K) of CTE enhancement funds. Cypress will be matching the grant funds with (\$20K) of Perkins funds. The pilot will allow the three colleges to address issues that need to be identified such as contractual obligations, technical support, joint scheduling of courses, and learning to collaborate instead of competing for FTES.

**\*Describe how you will use funds:**

Funds to pay for NetLab equipment and software, technical support, and professional development.

**Equipment/Software:**

Coastline-Partial purchase of NetLab Software PE (balance funded by CTE Enhancement)

Cypress-Upgrade NetLab Software from AE to PE

**Technical Support:**

Coastline-Equal match of Professional Expert to install, maintain, and troubleshoot NetLab

Cypress-Fund Professional Expert to install, maintain, and troubleshoot Netlab

**Professional Development:**

Coastline-Faculty Curriculum Development, IT Support-optimization of Netlab configurations

**\*Why is this the right time for this project?**

Regional collaboration and virtualized lab environments are essential for increasing capacity to serve more students and establishing the latest technology in the most efficient manner. This proposal is a pilot project among three regional colleges with different maturity levels addressing the critical needs and seeking future collaboration. The project will begin January 1, 2015 and will focus on procurement of equipment and software and the development of professional development activities. By fall 2015, Irvine Valley College should be offering two classes per semester utilizing the shared NetLab environment. The spring, 2016 semester would be used to make adjustments to the process, and complete the reporting out of the NetLab grant process.

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

Coastline and Cypress are currently offering courses that utilize extensive NetLab and cyber security curriculum. Coastline was formerly a Cisco Regional Academy, and is awaiting confirmation of the CAE/2Y (Center of Excellence in Cyber Security) certification from NSA and the department of Homeland Security. Coastline is currently a co-PI on the CyberWatch West NSF/ATE grant with a focus on outreach and curriculum development to colleges and high schools in cyber security. Both Coastline and Cypress have extensive IT support systems and supportive administrations.

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

There are two issues that could have an impact on the ongoing success of this NetLab project. The first is the development of an effective collaboration between the three colleges. While we have a good working relationship at this point, it is important for us to develop a trusting and supportive working environment where we can all share openly and truly focus on serving the needs of our students.

The second issue will be the ongoing funding that will be required to maintain and share resources. As FTES increases, there will be a greater demand on the equipment and technical support. This could be an opportunity to collaborate on other outside grants to meet these demands.

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

The continued support and collaboration with our Deputy Sector Navigator is very important. Gustavo Chamorro has been instrumental in helping us to put this pilot project together and his continued involvement will be crucial as we look to broaden the scope of this project to include the other colleges and high schools in Orange County.

**\*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?**

There are three outcomes that will be available to be used statewide. First, we will develop best practices to define the procedures that are necessary to setup and maintain a shared NetLab environment. Second, we will develop guidelines for the effective setup, support and maintenance of the NetLab environment. Finally, the professional development that we will be hosting could be made available to institutions statewide, and/or video archived for those who cannot attend. Our major focus will be the three colleges who are participating in our DSNs NetLabs working group, and will then expand to the other colleges in the county as needed.