

Entry #: 42 - Mathematics, Science and Engineering

Status: Submitted

Submitted: 3/19/2024 12:02 PM

DRAFT**OVERVIEW OF PROGRAM REVIEW AND PLANNING FOR INSTRUCTIONAL PROGRAMS**

Program Review and Planning is about evaluating and assessing programs and documenting plans for improving student success rates. Through review of and reflection on key program elements, Program Review and Planning identifies program strengths and strategies necessary to improve the academic discipline, program, and/or services to support student success.

The College also uses Program Review and Planning as the conduit to request resources (human, technology, facilities and funding) to further help improve and support programs.

ALL PROGRAMS WILL COMPLETE AN ANNUAL PROGRAM REVIEW FOR 2023-2024.

BASIC PROGRAM INFORMATION**Division Name**

Mathematics, Science and Engineering

Department Name

Computer Science and Information Systems

Microsoft_List_ID**Discipline Name**

Computer Science and Information Systems - Networking (CSNT)

Department Chair Name

Terrie Canon

Department Chair email

tcanon@palomar.edu

Please list the names and positions of everyone who helped to complete this document.

Rand Green, Professor

David Meske, Associate Professor

Website address for your disciplinehttps://www.palomar.edu/csit/programs_and_courses/**Discipline Mission statement**

The mission of the Computer Network Administration discipline at Palomar College is to offer our students current and valid training and certification preparation for both transfer and direct employment in the industry of Computer Network Administration. Studies in Computer Network Administration lead towards multiple Associate of Science degrees and preparation for multiple industry certifications from the most accepted and current certification vendors. As a strong CTE program, students will train to be well-rounded professionals in the field and will be prepared to enter a rapidly growing industry.

[\(Click here for information on how to create a mission statement.\)](#)

Does your discipline have at least one degree or certificate associated with it?

Yes

Are any of your programs TOP coded as vocational (CTE/CE)?

Yes

List all degrees and certificates offered within this discipline.

A.S. Cybersecurity
A.S. Cloud Computing and Virtualization
A.S. Computer Network Administration - Cisco
A.S. Computer Network Administration - Microsoft
C.A. Computer Network Administration - Cisco
C.A. Computer Network Administration - Microsoft
C.A. Cyber Defense Infrastructure Support Specialist
C.A. Cybersecurity Specialist
C.A. Cloud Computing Technician

BASIC PROGRAM INFORMATION: FACULTY AND STAFFING RESOURCES

In this section, you will identify how many faculty and staff support your discipline's programs. This information is considered when you request permanent staff and faculty hires. It is also useful as you evaluate your program and the human resources and talent you have to support our students.

To help you answer questions in this section, you will need the links shown in red.

Enter the number of permanent or full-time faculty support your discipline (program)?

2

For this past fall semester, what was your Full-time FTEF assigned to teach classes?

1.67

For this past fall semester, what was your Part-time FTEF assigned to teach classes? (Part-time FTEF = PT hourly and overload.)

0.97

List the classified and other permanent staff positions that support this discipline. If possible, include number of months and percentage workload.

None - ADA has retired and not been replaced.

List additional hourly staff that support this discipline and/or department. Include weekly hours.

Part-time and temporary lab assistant. All permanent ISAs have been removed from the CSIT department.

COURSE INFORMATION

In this section, you will review how students perform in the courses you offer as part of your program. The Chancellor's Office Vision for Success goals focus on eliminating equity gaps and increasing timely completions. Examining, reflecting upon, and developing strategies to improve course success rates is one way to help the college meet its Vision for Success Goals and support our students in reaching theirs.

Data are provided to help you examine differences in course success rates (C or better) across student demographic categories (e.g., gender) and course type (e.g., face-to-face, online).

After you complete your review of course success data, you are asked to confirm that you have assessed each course SLO within the past three years.

[Link: Course Data](#)

COURSE SUCCESS AND RETENTION

Have your overall course success rates increased, decreased, or stayed the same over the last 5 years?

Increased

Was this expected? Please explain.

Since Fall 2021 our course success rate has steadily increased from 61% to 66% for the Fall 2023 semester. This slight increase was expected as we exited the challenges of the pandemic when we had a pandemic low 61% success rate in the Fall 2021 semester. We are on an upward trajectory to meet and exceed our pre-pandemic success rate of 68%.

Have your overall course retention rates increased, decreased, or stayed the same over the last 5 years?

Increased

Was this expected? Please explain.

Since Fall 2020 our course retention rate has fluctuated during the pandemic years. With a low of 88% retention rate in Fall 2020, we have increased to just above institutional thresholds at 91% for Fall 2023.

Are there differences in success or retention rates in the following groups? (choose all that apply)

Age

Age: What did you find and why do you think age differences exist? What do you need to help close the gap?

Younger students have decreased in success and retention. Younger students need additional student support. Younger students need to have more access to labs and tutoring. The CSIT department has been stripped of all student support positions.

Please share methods that your department is using to improve retention and success rates in your courses. If you are focusing on a specific group like online students or a demographic group please include that information in your answer.

We are trying to establish funding for more outreach to community. The department is in desperate need of classified staff including ISAs and an ADA to ensure that students the support they need to be successful.

COURSE STUDENT LEARNING OUTCOMES (SLOs)**Excluding courses that haven't been offered in the last three years, do you confirm that all of your courses have been assessed since August 2020 (Result Summary Date)?**

Yes

Upload a copy of your SLO report from Nuventive ("Report 0. Last Result Date and Action Date for All Active Course Outcomes")

[0. Course SLO Report _Last Result Date and Action Date for All Active Course Outcomes \(1\).xls](#)
9.5 KB

**PROGRAM INFORMATION**

In this section, you are asked to consider and evaluate your programs, including the annual number of completions, and their program learning outcomes,

PROGRAM COMPLETIONS

Student success is at the core of what we do in assisting students in achieving their goals.

The Chancellor's Office Vision for Success stresses the importance of Program Completion as a major goal for our students. In addition, transfer and career readiness are key components of Palomar College's mission statement.

Link: [Program Completions](#)

Access the link above titled "Program Completions" and copy and paste five years of completion data for each of your discipline's degrees and certificates.

Degrees and Certificates Awarded (Count)

2016-17 2017-18 2018-19 2019-20 2020-21 2021-22

Comp Net Admin: Microsoft AS 6 8 3 5 1 3

Comp Network Admin: Cisco AS 8 8 12 3 3 3

Comp Network Admin: Linux AS 5 0. 0. 0. 0 0

Cybersecurity AS 0. 0. 0. 4 8 11

AA/AS Total 19 16 15 12 12 17

Certificate of Achievements

Comp Net Admin: Microsoft CA 10 10 4 6 2 2

Comp Network Admin: Cisco CA 11 14 12 3 4 3

Comp Network Admin: Linux CA 6 0. 0. 0 0 0

Comp Network Admin:Cisco/Linux 1 0 0. 0 0. 0

Cybersecurity Specialist CA 0 0 0 0 0 6

Certificate of Proficiency 2

Certificate Total 30 24 16 9 6 11

Grand Total 49 40 31 21 18 28

PROGRAM LEARNING OUTCOMES

Do you confirm that all of your programs have been assessed since August 2020 (Result Summary Date)?

Yes

Upload a copy of your SLO report from Nuventive ("Report 2. Last result, action, and follow-up date for each active program outcome").



[2. Last Result, Action, and Follow-up Date for Each Active Course Outcome.xls](#)
8.5 KB



Program Review Reflection and Summary

In this section you are asked to evaluate your programs by considering their program learning outcome assessments, the annual number of completions, and any other internal or external factors that had an impact on your program.

What factors have contributed to the success of your program(s)? Describe how they have contributed.

Driven and knowledgeable faculty. Increases in technology and simulated environments for learning.

What factors have presented challenges for your program(s)? Describe the impact of these challenges.

Lack of college funding, marketing, restaffing, and lack of staffing for student support such as the loss of ISAs and ADAs.

CAREER AND LABOR MARKET DATA

The Chancellor's Office Vision for Success stresses the importance of increasing the percent of exiting students who report being employed in their field of study. It is important for us to consider how **all** of our programs connect to future careers.

Go to this website <https://www.onetonline.org/> and enter your discipline in the bubble on the top right for ideas about potential occupations. Click on an example to see more detail.

The following websites are for CTE related data:

- [Centers of Excellence](#) (many other data resources besides supply and demand) Password: GetLMI
- [LaunchBoard](#)
- [LaunchBoard Resource Library](#)
- [Chancellor's Office Data Mart](#)
- [Career Coach-San Diego Workforce Partnership](#)
- [EDD Labor Market Info](#)
- [Career One Stop](#)

What kinds of careers are available for people who complete your programs (and/or transfer)? (Refer to O*net Link below) Are there any new or emerging careers? If so, how would the new or emerging careers impact your future planning?

There are various careers that are available to students that complete programs in the CSNT discipline including network administrator, network specialist, network analyst, server administrator, server OS specialist, systems analyst, cybersecurity analyst, and cybersecurity specialist. Our new programs in cybersecurity and cloud computing are examples of the discipline capitalizing on the emerging careers in the field. The next few years will focus on building out these two programs fully.

What are the associated knowledge, skills, abilities (KSA's) needed for the occupations listed above? (click examples in the link above to get ideas)

There are various careers that are available to students that complete programs in the CSNT discipline including network administrator, network specialist, network analyst, server administrator, server OS specialist, systems analyst, cybersecurity analyst, and cybersecurity specialist. Our new programs in cybersecurity and cloud computing are examples of the discipline capitalizing on the emerging careers in the field. The next few years will focus on building out these two programs fully.

There are many KSAs that are needed for the above-mentioned occupations and below list just a few:

- Knowledge of computer networking concepts and protocols, and network security methodologies.
- Knowledge of cyber threats and vulnerabilities.
- Knowledge of system and application security threats and vulnerabilities (e.g., buffer overflow, mobile code, cross-site scripting, Procedural Language/Structured Query Language [PL/SQL] and injections, race conditions, covert channel, replay, return-oriented attacks, malicious code).
- Knowledge of installation, integration, and optimization of system components.
- Knowledge of network security architecture concepts including topology, protocols, components, and principles (e.g., application of defense-in-depth).
- Skill in designing the integration of hardware and software solutions.
- Skill in conducting vulnerability scans and recognizing vulnerabilities in security systems.
- Ability to communicate complex information, concepts, or ideas in a confident and well-organized manner through verbal, written, and/or visual means.
- Ability to collaborate effectively with others.
- Ability to apply network security architecture concepts including topology, protocols, components, and principles (e.g., application of defense-in-depth)

How does your program help students build these KSAs?

Faculty within the discipline work to include activities and assignments that focus on building these KSAs including soft skills such as written and verbal communication through reports, written assignments and presentations.

The following four questions are for CTE programs only. If you are not a CTE program, please go back to the BASIC INFORMATION tab and select "no" for "Are any of your programs TOP coded as vocational (CTE/CE)?"

What is the regional three-year projected occupational growth for your program(s)?

Based on the San Diego Workforce Partnership data, occupational growth for network administration occupations will be increasing over the next three years and continue to increase through 2029. For information security analyst positions, employment counts in the region will also be increasing at an even higher rate. According to cyberseek.org, the San Diego region has nearly 9,000 open positions in the cybersecurity field and the supply of workers is listed in the Very Low category.

What is being done at the program level to assist students with job placement and workforce preparedness?

At the program level, assistance or students with job placement is performed on a student-by-student basis by individual faculty members. The CSNT discipline does not have a formal job placement or workforce preparedness program in place.

When was your program's last advisory meeting held? What significant information was learned from that meeting?

Due to the pandemic, the discipline has not had an advisory meeting in the past 2 years. Faculty in the discipline have stayed current with market trends and have kept in contact with industry partners. The discipline plans to have an industry meeting soon.

What are the San Diego County/Imperial County Job Openings?

Most job openings are for cybersecurity analysts and according to cyberseek.org, there are nearly 9,000 job openings in the San Diego metro area for cybersecurity-based jobs. According to the San Diego Workforce Partnership data, occupational growth for network administration occupations will be increasing over the next three years and continue to increase through 2029.

PROGRAM GOALS

Progress on Prior PRP Goals

In the most recent PRP cycle, you identified a set of goals. Provide an update to your most recent PRP goals.

[Click here for previous PRPs with goal information.](#)

Prior PRP Goals

Prior Year PRP Goal 1**Brief Description**

Revise Network Administration degree.

Goal Status

Ongoing

Add any comments related to your work on prior goal (e.g., success, challenges, reasons for eliminating a goal). Describe Outcomes, if any.

Due to the course cuts, the discipline has decided to revise the multiple networking degrees into one streamlined degree in hopes that we increase enrollment, success rates and retention rates.

Prior Year PRP Goal 2**Brief Description**

Return to previous staffing levels for student support.

Goal Status

Ongoing

Add any comments related to your work on prior goal (e.g., success, challenges, reasons for eliminating a goal). Describe Outcomes, if any.

The discipline and the department have had all support staff removed. We no longer have a systems analyst, or instructional support assistants which provided technical assistance and student support such as tutoring. These areas are crucial to the success of the discipline.

Prior Year PRP Goal 3**Brief Description**

Update all labs in preparation of returning to campus for some highly technical classes.

Goal Status

Ongoing

Add any comments related to your work on prior goal (e.g., success, challenges, reasons for eliminating a goal). Describe Outcomes, if any.

The discipline and department labs are seriously outdated in regards to hardware and software. We have highly technical curriculum and need the labs, faculty computers and software to be at the highest level. We need the information services department to support this goal along with budget allocation.

Prior Year PRP Goal 4**Brief Description**

Implement new Amazon Web Services courses and program.

Goal Status

Completed

Add any comments related to your work on prior goal (e.g., success, challenges, reasons for eliminating a goal). Describe Outcomes, if any.

With increased FTES, we were able to hire a new PT faculty member and offer AWS courses for the first time.

Prior Year PRP Goal 5**Brief Description**

Increase student participation in cybersecurity competitions.

Goal Status

Ongoing

Add any comments related to your work on prior goal (e.g., success, challenges, reasons for eliminating a goal). Describe Outcomes, if any.

Students have reported overwhelmingly to cybersecurity faculty that participating in cybersecurity competitions increases their passion for cybersecurity as well as increases their knowledge and skills. Continuing to support students in competing in cybersecurity competitions will help students as well as Palomar College as a whole. We were able to help students in Spring 2024 with competition fees for the National Cyber League competition.

Describe any changes to your goals or three-year plan as a result of this annual update.

Do you have any new goals you would like to add?

No

RESOURCES

Congratulations! You are nearing completion. In this section, you will consider the resources you need to implement your three-year program review plan and/or address any findings from your assessment of your discipline.

The section is organized into the following five parts:

PART 1: Staffing Needs (Faculty and Additional Staff)

PART 2: Budget Review

PART 3: Technology Needs

PART 4: Facilities Needs

PART 5: One Time Request for Other Needs (NonTechnology Equipment, Supplies, Operating Expenses, Travel)

Reflect upon the three year plan you created above, your current operations, and any upcoming factors (retirements, changes in legislation, and changes in policies or procedures) that will impact your unit. How will you allocate resources to implement your plan? Describe additional resources needed to improve the effectiveness of your unit/program. All resource requests must be aligned with the College's [Vision Plan 2035](#).

Summarize any reallocation/re-organization of resources you are making based upon your three-year plan, your current operations, and any other factors (e.g., legislation). Describe the impact of the reallocation of resources to your unit.

NOTE: All requests listed in the PRP will be reviewed by deans and supervisors, then forwarded to the appropriate review group for prioritization. A resource requests approved to move forward in the review process does NOT guarantee a position or funding.

PART 1: STAFFING NEEDS

Requests for faculty will follow the prioritization process currently in place in the Faculty Position Prioritization committee, which reports to the Education, Equity, and Student Success Council. Requests for new staff positions will be prioritized at the division level and reviewed at Exec.

Are you requesting additional full-time faculty?

No

REQUEST FOR ADDITIONAL FULL-TIME FACULTY

Faculty Request 1

Title of Full-Time Faculty position you are requesting

How will this faculty position help meet district (Guided Pathways, Strategic Plan, Strategic Enrollment Management etc.), department and/or discipline goals? Please be sure to tie this back to your PRP goals and three year plan.

Is there a scarcity of qualified Part-Time Faculty (for example: Specialized degree/experience, emerging/rapidly changing technology, high demand)?

Are you requesting this position for accreditation, regulatory, legislative, health and safety requirements? Please explain.

Utilizing your PRP data, please summarize the discipline productivity, efficiency, and any regional career education needs for this discipline.

Is your department affected by faculty on reassigned time? If so, please discuss.

Are you requesting AA, CAST for Classified Staff?

Yes

REQUEST FOR ADDITIONAL CLASSIFIED, CAST, AA

Staff, CAST, AA request 1

This year, units are asked to identify new positions only as part of the PRP process. Vacant positions will be addressed outside of the PRP process.

If you are requesting STAFF, please fully complete this section. If not, you can skip to the next resource section. Click "+Add Staff, CAST, AA request" below for each additional request.

When considering the funds required for a position, consult the HR website for position salary schedule and the [Benefits Worksheet](#) for additional costs related to benefits for the position.

Title of new position

Instructional Support Assistant 3

Is the position request for AA, CAST, or Classified staff?

Classified

Is this request for a full-time or part-time position?

Full Time

How does the position fill a critical need for current, future, or critical operations?(e.g. accreditation, health and safety, regulatory, legal mandates, institutional priorities, program trend analyses of growth/stability.)

This position fills a critical need to support specific computer network labs for Computer Network Administration degree programs. Not all labs are the same and can be supported by a central IT department. Continuing to not fund an ISA position for our department will result in the labs being unmanaged, outdated, and not utilized to their greatest potential.

Does the position assist in establishing more efficient District operations through either of the following: reorganization/restructuring OR use of technology?

The most recent reorganization of removing the last ISA left the department with no support for the current academic year other than ad-hoc per-incident support from IS. Transitioning to a central technology support model essentially transferred the overall computer lab management and support to the department faculty with indirect technical support from Information Services. Furthermore, this model places the responsibility of planning, troubleshooting, and initiating support requests to a central IT department in order to maintain the academic labs used to instruct students directly to the faculty. The previous model of having a dedicated ISA to manage the instructional computing labs is more effective in supporting student and faculty needs in these labs rather than transferring this responsibility to instructional faculty.

Is there funding that can help support the position outside of general funds?

No

Describe how this position helps implement or support your three-year PRP plan.

In order to have higher student success and retention, our department must return to previous staffing levels in order to support students. The department has lost ALL positions for student support. We teach and prepare students in very specialized areas. General student support at the college such as library tutoring is of little help to our department students. The department needs to hire specialized student support.

Educational Vision Plan 2035 Objective

1:1	1:10	3:5	5:2
1:2	2:3	3:6	5:3
1:3	2:4	3:7	5:4
1:4	2:6	4:5	5:5
1:7	2:7	4:6	
1:8	3:1	4:7	
1:9	3:3	5:1	

If the position is not moved forward for prioritization, how will you address this need?

If this position is not prioritized, we will continue to schedule online classes using cloud-based labs rather than hold in-person classes.

PART 2: BUDGET REVIEW

Request that your ADA provide you with your *Available Budget Report* and complete this section.

Review your recent Budget/Expenditure reports and consider your three-year PRP plan.

Do you have any ongoing needs or needs to augment your regular budget?

Yes

What budget considerations would you like your dean/supervisor to be aware of or to consider? Describe the need and the amount of the adjustment.

PARTS 3, 4 and 5 – TECHNOLOGY, FACILITIES AND OTHER NEEDS

1. One-Time Fund Requests. Through the PRP process the college implements an approach for prioritizing and allocating one-time needs/requests. Prioritization takes place through the appropriate groups, leadership, and the Budget Committee. The executive team and Resource Allocation Committee consider various sources for funding PRP requests. Resource requests also inform the larger planning process like Scheduled Maintenance Plans, Staffing Plans, and institutional strategic planning.

For more information about funding sources available, see [IELM BLOCK GRANT, LOTTERY, PERKINS AND STRONG WORKFORCE GUIDELINES](#) (on the left menu of the webpage).

If you are a CTE program and think you may qualify for CTE funds for your PRP request(s), you are STRONGLY encouraged to answer the call for Perkins/Strong Workforce grant applications in February. Contact the Dean of CTEE for additional information.

Consider submitting one-time requests only if you have verified that you cannot fund the request using your general discretionary funds or other funds.

1. Technology and Facilities Review. Requests for technology and facilities are assessed by the Deans and then, if appropriate forwarded to the proper institutional group (e.g., technology review committee, or facilities) for review and feedback.

PART 3: TECHNOLOGY NEEDS

Will you be requesting any technology (hardware/software) this upcoming year?

Yes

Technology Request

Technology Request 1

What are you requesting?

New computer labs.

Is this a request to replace technology or is it a request for new technology?

Replacement of Technology

Who is the current user of the requested replacement technology?

Students

Provide a detailed description of the the request. Include in your response:

a. Description of the need? (e.g., SLO/SAO Assessment, PRP data analysis)

We have old out of warranty computer equipment in all labs. All labs need to be updated if we want to return to an in house learning modality. This includes 32 student and one faculty computer system for each lab.

b. Who will be impacted by its implementation? (e.g., individual, groups, members of department)

Faculty and students

c. What are the expected outcomes or impacts of implementation?

Faculty and students will be able to work with updated technology that supports curriculum.

d. Timeline of implementation

ASAP

What is the anticipated cost for this request? If any, list ongoing costs for the technology (licenses, support, maintenance, etc.).

70.000 per lab.

Do you already have a budget for this request?

No

What PRP plan goal/objective does this request align with?

What Educational Vision Plan 2035 Goal/Objective does this request align with?

1:5	1:10	3:8	5:4
1:6	2:6	5:1	5:5
1:7	3:1	5:2	
1:8	3:5	5:3	

If you have multiple requests for technology and had to prioritize, what number would you give this? (1 = Highest)

1

What impacts will this request have on the facilities/institution (e.g., water/electrical/ADA compliance, changes to a facility)?

None

Will you accept partial funding?

Yes

Technology Request 2

What are you requesting?

Faculty Laptops and Mobile Devices

Is this a request to replace technology or is it a request for new technology?

Replacement of Technology

Who is the current user of the requested replacement technology?

CSNT Faculty

Provide a detailed description of the the request. Include in your response:

a. Description of the need? (e.g., SLO/SAO Assessment, PRP data analysis)

Updated computers so that faculty have the technology to teach using district devices rather than personal devices. Currently the issued district devices are 5+ years old and are out of warranty and out of date.

b. Who will be impacted by its implementation? (e.g., individual, groups, members of department)

Faculty and students.

c. What are the expected outcomes or impacts of implementation?

Faculty can better serve students with updated technology.

d. Timeline of implementation

1 year

What is the anticipated cost for this request? If any, list ongoing costs for the technology (licenses, support, maintenance, etc.).

10,000

Do you already have a budget for this request?

No

What PRP plan goal/objective does this request align with?**What Educational Vision Plan 2035 Goal/Objective does this request align with?**

1:4

1:8

5:2

5:5

1:5

1:9

5:3

1:6

5:1

5:4

If you have multiple requests for technology and had to prioritize, what number would you give this? (1 = Highest)

1

What impacts will this request have on the facilities/institution (e.g., water/electrical/ADA compliance, changes to a facility)?

Faculty can only teach the latest technology, if we have the latest technology.

Will you accept partial funding?

No

Technology Request 3**What are you requesting?**

U.S. Cyber Range lab time for students to complete lab activities in cloud-based environment

Is this a request to replace technology or is it a request for new technology?

New Technology

Provide a detailed description of the the request. Include in your response:

a. Description of the need? (e.g., SLO/SAO Assessment, PRP data analysis)

Since the pandemic, our lab-based classes transitioned to the online modality. In order to facilitate lab activities, course content for the labs were migrated to the U.S. Cyber Range. This resource is needed to facilitate continuous lab activities for cybersecurity students.

b. Who will be impacted by its implementation? (e.g., individual, groups, members of department)

Students will be impacted if we are unable to continue to offer this option because students do not have the computing resources at home to utilize virtualization software in the same manner that we did in the computer classes.

c. What are the expected outcomes or impacts of implementation?

The expected outcome is that we will be able to continue to provide online courses to cybersecurity students.

d. Timeline of implementation

We are currently using the cyber range platform. Funding request is for continued funding of an existing technology.

What is the anticipated cost for this request? If any, list ongoing costs for the technology (licenses, support, maintenance, etc.).

Costs are based on student use and are estimated at \$12,000 per year.

Do you already have a budget for this request?

No

What PRP plan goal/objective does this request align with?

Goal 6: Increase student participation in cybersecurity competitions

What Educational Vision Plan 2035 Goal/Objective does this request align with?

2:4	2:6	3:6
2:5	3:5	

If you have multiple requests for technology and had to prioritize, what number would you give this? (1 = Highest)

1

What impacts will this request have on the facilities/institution (e.g., water/electrical/ADA compliance, changes to a facility)?

No impacts on facilities/institution.

Will you accept partial funding?

No

Technology Request 4**What are you requesting?**

Funding for students to participate in external learning opportunities in the National Cyber League.

Is this a request to replace technology or is it a request for new technology?

New Technology

Provide a detailed description of the the request. Include in your response:**a. Description of the need? (e.g., SLO/SAO Assessment, PRP data analysis)**

Students have reported increased cybersecurity knowledge and skills when completing the NCL training and competitions. Palomar's presence is always increased significantly when Palomar provides the \$35 registration fee for students. Palomar students have placed in the top 20 nationally multiple times in the past 4 years.

b. Who will be impacted by its implementation? (e.g., individual, groups, members of department)

Students

c. What are the expected outcomes or impacts of implementation?

The expected outcomes are increased awareness of cybersecurity at Palomar College and increases in student learning.

d. Timeline of implementation

We are currently using the cybersecurity competition platform. Funding request is for continued funding of an existing technology.

What is the anticipated cost for this request? If any, list ongoing costs for the technology (licenses, support, maintenance, etc.).

\$4,200 per year

Do you already have a budget for this request?

No

What PRP plan goal/objective does this request align with?

Goal 6: Increase student participation in cybersecurity competitions

What Educational Vision Plan 2035 Goal/Objective does this request align with?

2:4

If you have multiple requests for technology and had to prioritize, what number would you give this? (1 = Highest)

2

What impacts will this request have on the facilities/institution (e.g., water/electrical/ADA compliance, changes to a facility)?

No impacts on facilities/institution.

Will you accept partial funding?

Yes

PART 4: FACILITIES REQUESTS

Do you have resource needs that require physical space or modification to physical space?

No

PART 5: OTHER ONE-TIME NEEDS

For more information about funding sources available, see [IELM BLOCK GRANT, LOTTERY, PERKINS AND STRONG WORKFORCE GUIDELINES](#). Please check with your department chair on the availability for this cycle.

Do you have one-time requests for other items (e.g., Non-technology equipment, supplies, operating expenses, travel) that your budget or other funding sources will NOT cover?

No

I confirm that all full-time faculty in this discipline have reviewed the PRP. The form is complete and ready to be submitted.

Yes

Enter your email address to receive a copy of the PRP to keep for your records.

rgreen@palomar.edu

Feedback and Review

Department Chair

I confirm that the PRP is complete.

No

Department Chair Name

Date