Adv Tech 2010-11

Electronics - Programmable Controller hardware/software upgrade - #1

Summary:

Upgrade Programmable Controller software and hardware.

Description

Provide upgraded hardware and software to provide 15 student stations. These stations are used by Electronic Technology and Apprenticeship students in several classes throughout the year.

Manage increased student attendance and prepare the student to work with modern equipment. Last year's unit plan initiative to increase the student-teacher ratio has been successful to the point where we need more lab equipment for the additional enrollment. This equipment is industry standard and the program is falling behind in technology for the students.

Questions and Answers

How is the initiative linked to the Unit Plans most recently submitted?

1. **How does it continue the achievement of those goals?**
2. **If this is a continuation of an initiative started last year, make sure that relationship is clear.**

How is this initiative linked to the efficiencies and productivities plans you had last year?

1. **How does it continue the achievement of these plans?**
2. **If this is a continuation of an efficiency or productivity plan started last year, make sure that relationship is clear.**

This upgrade is consistent with our plans to incorporate Ethernet technologies in the Electronic Technology and Apprenticeship Programs.
This equipment and software is commonly used in modern industrial applications. It is a major focus for our use in Ethernet technologies.

Last year, our program secured Ethernet ports for the PC's that are located in our lab area. This initiative is designed to upgrade hardware that can be used with the Ethernet ports.

Classes that use this hardware are shared between Electronic Technology students, Manufacturing Plant Electrician, and Limited Maintenance Electrician apprentices. The addition of this hardware and software keeps the class relevant to all of these groups. As long as the class

can serve multiple groups, the classes will maintain a larger enrollment and, consequently, a higher efficiency.

Our program recognizes that the apprenticeship groups will take classes through the Electronic Technology program as long as we maintain relevance and affordability. This initiative is designed to address the 'relevance' aspect of this formula. This equipment and software will benefit the students by training them with technologies that are current to common industrial standards. The community recognizes this quality and increases our odds of making us their choice as a training facility.
The Electronic Technician program, outside of recent enrollment anomalies, has been a program with declining enrollment. The long term strategy is to combine some E.T. classes with other campus groups such as apprenticeship. Keeping our class relevant to multiple groups is essential to this goal and this initiative addresses that aspect of the plan.

Describe the resources needed:

Equipment

- 5 Student Stations ($10,000 each)
- 1 Training ($1,000 each)

Request: Carl Perkins (EQP) $51,000
Request: Tech Fee (EQP) $51,000

What specific measurable program outcomes do you expect to achieve with this initiative? The outcomes should be specific enough to be measurable. Also, outline the method that will be used to determine the results.

Students will be able to demonstrate competence in the use of this equipment.

Department Priority:

11

Unit Resources:

There are no unit resources available. Two program classes will be designed to use this equipment. Division and program budgets will support the incorporation of this equipment and hardware to existing classes.

Funding Request: Carl Perkins

Is this a Career & Technical Education program approved by the state and offered through Lane for credit?

Yes

If not a Career & Technical Education program, does your request provide considerable support for students enrolled in these programs?

Yes

Do you have an advisory committee that meets 2-3 times per year?

Yes

If request is for personnel, will funds be used to replace an existing position?

How will funding this initiative increase or sustain the academic achievement and technical skills attainment (GPA of 2.0 or better) of Career and Technical Education students?

By keeping the hardware and software current with industrial trends, students become more 'engaged' with the classes. New equipment is challenging and exciting! Students recognize the importance of the class when the training is relevant.

How will funding this initiative increase or sustain the number of CTE students that graduate or receive a one year certificate from Lane and help prepare the students for employment?

By training on equipment that is current to industrial standards, the students' employability will increase. In order for our students to be hired, it is essential that this program keeps up with the hardware and software that is being used by our local technical community.

EQUIPMENT $

40000

COMPUTER HARDWARE $

COMPUTER SOFTWARE $

10000

MATERIALS & SUPPLIES $

CURRICULUM DEVELOPMENT (Hours)

100

PART-TIME FACULTY $

TIMESHEET STAFF $

TRAVEL $

Can this initiative be partially funded?

No

EQUIPMENT $

(E) Explanation of effect of partial funding:

COMPUTER HARDWARE $

(CH) Explanation of effect of partial funding:

COMPUTER SOFTWARE $

(CS) Explanation of effect of partial funding:

MATERIALS & SUPPLIES $

(MS) Explanation of effect of partial funding:

CURRICULUM DEVELOPMENT (HOURS)

(CD) Explanation of effect of partial funding:

PART-TIME FACULTY $

(PF) Explanation of effect of partial funding:

TIMESHEET STAFF $

(TS) Explanation of effect of partial funding:

TRAVEL $

(T) Explanation of effect of partial funding:

Funding Request: Curriculum Development

Funding Request: Technology Fee

1. Category of request

- **Maintain existing technology**
- **Increase student access to technology**

- **New technology**

Please type in the category of the request in the field below.

New technology

2. Campus location

- **Main Campus**
- **Downtown Center**
- **Florence**
- **Cottage Grove**
- **CLC (list specific locations)**

Please type in the location of the request in the field below.

Main Campus

3. Names of the person(s) with more information (if needed):

Doug Wiess 463-5890

4a. Budget ORGN

611705

4b. Budget PROG

112000

5.How many students will benefit per year?

174

6. Describe the benefit?

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COMPUTER SOFTWARE $

10000

STAFFING $

1000

INSTALLATION $

LICENSING $

Can this initiative be partially funded?

No

COMPUTER HARDWARE $

(CH) Explanation of effect of partial funding:

COMPUTER SOFTWARE $

(CS) Explanation of effect of partial funding:

STAFFING $

(S) Explanation of effect of partial funding:

INSTALLATION $

(I) Explanation of effect of partial funding:

LICENSING $

(L) Explanation of effect of partial funding: