

Adv Tech 2011-12

Fabrication/Welding - #1 - Angel Roll Machine

Summary:

Purchase a small pyramid rolling machine.

Description

An angle roll machine utilizes three roller dies to create radius in linear forms of metal. The products of this machine may be used to build wide variety products. The machine needed is of smaller capacity (2" x 2" x 3/8" L) This type of machine tool and its products are commonly found in the metal fabrication industry. Curriculum is available to teach this technology and currently existing classes.

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.**

The Program has had a long standing and continuing commitment to its number 2 "Implementation Goal" of providing a learning environment that reflects the reality of the places of employment for which our students are training. This machine tool is consistent with that goal.

An angle roll machine and its products are commonly utilized in metal fabrication. For the Program to acquire one would enable it to "enhance its capabilities and more closely approximate the industry" who are employers of our students.

This initiative seeks to provide hands-on instruction on machine tool technology. It would provide training not currently available in the program. Yet, this technology and it's products are typically utilized by potential employers of our students. The productivity of a technology based program, its primary goal, is to equip students with skills and knowledge necessary to access the world of work.

This initiative enhances the productivity of the program through offering expanded opportunities to acquire skills utilized by the metal fabrication industry.

Describe the resources needed:

This initiative is seeking to fund the purchase of one (1) smaller angle roll machine. Cost per unit is \$27,000.

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.

- 1) Purchase of one (1) smaller angle roll machine.

- 2) Integrating this equipment into the teaching curriculum.
- 3) Students utilizing this equipment to make projects and products.

Department Priority:

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Unit Resources:

There are no resources available.

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?

The machine tool for which funding is requested is not inherently designed to improve academic achievement. Such a tool would provide for the opportunity to increase technical skill attainment by providing technological learning experience not currently available in the program.

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?

This initiative will enhance program capability, increase student industrial skill sets, and broaden student knowledge base. In further diversifying training modules (technologies) program capacity (CTE students) is increased.

EQUIPMENT \$

27000

COMPUTER HARDWARE \$

COMPUTER SOFTWARE \$

MATERIALS & SUPPLIES \$

CURRICULUM DEVELOPMENT (Hours)

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](#)