

CTE Enhancement Funds Proposal Abstracts

Computer Networking and Security:

Mount San Antonio College has an Associate of Science Degree in Science for Network Administration and Security Management. This curriculum became the model for many colleges in California and other states. The thriving curriculum must be kept current and enhanced to deliver effective industry professionals.

This will assist the college in covering curriculum development in areas like networking, forensics, cybersecurity, secure software, wireless security; and mapping to national standards: Stipends will be provided = \$33,374.

To keep current we will send faculty members for training and industry certifications, we estimate 10 training seminars will cost around \$50,000, including travel and related expenses.

To upgrade our hardware to support this program: We will purchase and install network and virtualization hardware with required software, totaling \$196,626.00

1. Virtualization and networking upgrades = \$20,000.00
2. Virtualization and Networking classroom lab hardware and software = \$174,376.00
3. CNASM classroom wireless equipment, items #1 & 2 = \$2,250

Hospitality and Restaurant Management:

The Hospitality and Restaurant Management (HRM) program will be relocating to a newly funded Business Building in the very near future. One aspect of the new building is a fully functional restaurant lab. This will allow the HRM program to offer a hands on teaching environment in restaurant management. Our current HRM program is very successful and with the new addition we have the ability to grow its success. To assure the quality of the program the following will be needed: curriculum development, marketing and recruitment, professional development and equipment.

Faculty stipends will be used to create AA/AS degree and certificate cohorts to cover curriculum development \$23,394

Clerical support staff \$8,938 (\$12.5/hr x 37 wks x 19hrs)

Supplies and Materials \$5,000

Program Marketing & Recruitment: \$50,000

Professional Development (NRA Chicago for faculty and students) \$12,000

Equipment for new HRM facility \$50,000 with a College match of \$200,000

Manufacturing Technology:

In the past year, faculty members have worked with industry advisors to revamp the MFG curriculum. This new curriculum, and the introduction of 3 new mills and a lathe (to replace 30+ year old pieces) that will be purchased using CTE-EF, are the first steps toward the creation of a thriving program. Additionally the program will use college and industry matching funds to provide professional development training on the new equipment to faculty. Industry will also provide work experience placements along with campus appearances at Lunch and Learns, mock interviews, employer panels and presentations.

Finally, with the promise of new equipment, Mt. SAC has begun discussions with Glendale College about collaborating to engage students in "real world" MFG scenarios in the near future. These real world challenges will include:

- using sketching and rapid visualization techniques for product design
- working within established design constraints
- analyzing manufacturing constraints to determine which manufacturing processes, prototyping, and fabrication machinery should be used
- developing refined working prototypes

The funds requested to help this are:

Tooling for Mills and Lathe=13,000.00

3 Haas Mills @54,485.00=163,455.00