

Honolulu Community College

Funding Request Form

Department: AERO/PATC

Date: March 3, 2008

Proposed: Isaacson/Hiatt

Funding Source: EOY

Funds Requested: \$8,668.00

Request: AERO Technology Upgrades for Courseware Presentation, Student Workbooks, FAA Records Tracking and Compliance

Objectives: Promote learning for students, faculty teaching improvement and develop effective courseware for academic support

Applicable System Strategy and Objectives: HCC Strategic Goals: 1) promotes learning and teaching for students, 2) Improves student recruitment and retention, and 3) Promotes workforce develop training. UH System/UHCC System Strategies: Goal 3 Contribute to the state economy and Goal 4 Workforce development. Program review and assessment documentation. Hawai'i State Workforce development objectives.

Background: The AERO faculty operate on two ten-year old+ G3 Power Macs using software that is no longer supported by HCC ITS. The AERO Department self-publishes eight workbooks required by the FAA for students to complete the class work. The workbook files are on two computers for redundancy. Operating on 10+ year computers is unworkable. The request computers and software can copy and convert current workbook files and records tracking into an updated format. The resultant revisions would allow enhanced informational workbook presentation benefiting the AERO students. The workbook revision process would be undertaken by the AERO staff as part of their duties.

Nationwide archaic courseware presentations plague the aviation maintenance schools. The requested software permits faculty development of improved courseware. State of the art graphics, videos and information to help students understand aircraft systems and technology can be developed in cooperation with industry. Recognizing the need for improved courseware Boeing has provided a contribution to offset this request. Additionally, the IT equipment will enable HCC to potentially team with a consortium of colleges, Boeing and the other aviation industry organization to jointly develop advanced courseware and presentations. HCC has been encouraged to seek additional grants from aircraft manufacturers to enhance courseware. Modern courseware and presentations are essential learning tools to attract and retain students.

Banner lists thirty nine (39) AERO majors, total. Hawai'i Department of Labor statistics anticipates a need for 30 aircraft mechanics per year. AERO Department records indicate about 58% students complete the program to qualify for Certification testing by the FAA. With the worldwide boom in aviation commerce the industry projects a near term shortage of 15,000 A&P mechanics. With unabated aviation growth and retirement, project personnel growth of 7 to 14% is expected world-wide. Hawai'i is currently experiencing a shortage of A & P mechanics. A Boeing pending partnership can revitalized the AERO program with an influx of Asian-Pacific prospective students.

Accurate student records tracking are required for AERO by FAA certification. Current enrollment, student progress exams including: aeronautical knowledge, hands on critiques and written exams are tracked by manual paper entries in file folders. Requested software shall permit automated recording and filling, access to post HCC schooling and employment tracking to monitor career development.

Funding Results and Expectations: Immediate improvement is expected in the redesign and enhancement of eight AERO Department self-published workbooks required by students to complete class work in compliance with FAA. Next, is improved student records and tracking from HCC entry classes through career development. The high impact expectation is the development of dynamic courseware presentations developed through cooperation with Boeing-Alteon and consortium of community colleges. The require to enter into the courseware development and the potential joint funding proposal is the request equipment.

Funding Breakout:

List New and Replacement Equipment		
1	AERO Technology Upgrades for Student Tracking and Course Presentation	\$8,688.00
	(2) MA970LL/A Mac Pro computers with mouse and keyboards	\$5198.00
	(2) M9178LL/A 23 " flat panel display	1598.00
	(2) MA516LL/A Apple care Mac Pro	398.00
	(1) Hp LaserJet P2015DN printer	499.00
	(1) Microtek Scanmaster i800 scanner	360.00
	(2) Adobe Design Premium software	1198.00
	Total with tax	\$9686.90
	Boeing contribution offset	-\$1000.00
	Total Requested	\$8,688.00