GEORGIA STATE UNIVERSITY

FY 2008 Technology Fee Proposal

Submitting Organization:
Major Unit: College of Arts and Sciences
Department: Ernest G. Welch School of Art and Design

Contact Person: Kathy King, Nancy Floyd, Joan Tysinger
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1. Project Short Title

Technology Based Media-Specific Tools Required by Art and Design's 3-D Area

2. Total Requested

Fiscal Year 2008
$14,907

3. Executive Summary

Project Description (three or four sentences)
The 3-D area of Art and Design includes the Ceramics and Sculpture Programs. In this grant we ask for the following basic, media specific, digitally enhanced equipment and software for the 3-D area: 1. 3 Digitally based SKUTT kilns 2. Hyper glaze software 3. Saw Stop table saw with an electronic, skin-sensing device that prevents the saw blade from seriously injuring a student user In addition, we seek wireless access for both the Ceramics and Sculpture studios/labs, sites as yet un-served by the campus wireless network.

4. Project Description

The 3-D area of Art and Design (Ceramics and Sculpture) are heavily dependant on production tools and equipment that are both complex and dangerous if handled incorrectly. This grant requests basic, media specific, digitally enhanced equipment and software designed to alleviate danger and enhance productivity.

Electric kilns operate to reach temperatures of 2100 degrees F. Safety controls are minimal and involve real time interventions. The Skutt Kiln offers a safer alternative to

the current manual kiln through its digital component that detects errors in the electrical feed with the capability of monitoring, adjusting or turning itself off while firing. These safety features are ideal for GSU's ceramics studio where it is impossible for students or faculty to be present during the 12 hour firing cycle.

Hyperglaze Software, a teaching tool for ceramic chemistry, deals with the chemical make-up of clay bodies and glazes used in 3-D mediums. The software indicates the dangers of each chemical; assists in calculation of recipes for clays/glazes; and tracks production cost.

Table saws, an essential sculpture tool, are among the most dangerous pieces of equipment in any studio. Table saw accidents resulting in serious injury; occur once every 9 minutes in the U.S. GSU's sculpture program has had first hand experience with this devastating reality. The requested Saw Stop table saw is designed with an electronic, skin-sensing device that stops the blade within 3-5 milliseconds of contact with skin. The requested Saw Stop configuration will eliminate table saw accidents thereby meeting the needs of the sculpture program for years to come.

All of the 3-d studios require wireless Internet access to teach. At present the basement location of the Ceramics Lab and the off-campus location of the Edgewood Sculpture Studio prevent reception of the wireless signal that serves the rest of the School.

5. Record the review numbers assigned by IS&T and Facilities. Their assessments must be included in Sections 16 and 17.

IS&T: **# IST08-019**
Facilities: **#14506-07**

6. Relevance to Regents Guidelines

[1] Technology fee revenues should be used primarily for the direct benefit of students to assist them in meeting the educational objectives of their academic programs.

The research and production tools and network connectivity requested in this proposal are a necessary part of any 3 - D program and vital to the education of students in ceramics and sculpture. The addition of significant safety components makes these tools especially desirable.

[2] Technology fee revenues should be used to assure that there are sufficient campus licenses for primary productivity tools such as those found in the Microsoft Office product suites for discipline specific software.

The requested Hyperglaze Software deals with the individual chemical make-up of clay

bodies and glazes used in sculpture and ceramic mediums. The software is a basic tool in any ceramics studio/lab.

[3] Technology fee revenues should be used for hardware and Network related expenditures that include support of general purpose or special purpose laboratories used by students for body productivity and more discipline related activities.

This proposal delineates software and production tools and network capability needed to maintain the 3-D, discipline specific classroom/studio labs. The Sculpture and Ceramics studio/labs are designed to give our sculpture and ceramics students access to discipline-standard instruction and training with a full range of production tools and processes. The research and production tools and network connectivity requested are important for enhancing safety and maintaining instructional effectiveness in the 3-D studio/labs.

[4] Technology fee revenues may be used for training of students and, to a lesser extent, staff and faculty.

The hardware, software and network connectivity requested here is intended to solely support the ceramics and sculpture curriculums.

7. Relevance to Strategic Plan(s)

While the hardware, software and network connections requested in this proposal conform to “the University’s commitment to a technology-enhanced model of education” it also provides real, viable solutions for serious safety issues endemic to both sculpture and ceramics. Safety is a priority for Art and Design programs and implementation of the safety measures listed here a school priority.

8. Impact on Students Served

Essentially every student taking ceramics and/or sculpture would be impacted by the implementation of this proposal. All students taking classes that involve firing clay bodies would use the Skutt kiln. Likewise all students dealing with glazing clay bodies would benefit from the Hyperglaze software. All students dealing with woodworking would use the Saw Stop table saw. And all 3-D students and potentially all classes would benefit from network connectivity. Approximately 24 undergraduate classes or 615 undergraduate students in Ceramics and Sculpture and 15 graduate classes or 150 graduate students would be positively affected by the proposed implementations each year.

9. Justification of Funding Requirements for Fiscal Year 2008

Provide a specific description of the funding requirements for FY 2008 in the Microsoft Excel spreadsheet below. You must use the same terminology as in the Project Description (page 2, #4) to allow each itemized line to be traced back to the items and functionality appearing in the Project Description. Failure to do so will negatively affect consideration of your proposal. Itemize and total the following categories of expense. If necessary, add lines to the table below corresponding to accounting objects of expense. **Please note that any equipment items less than $4,999 should be categorized as "supplies."**

Object of Expense	Itemized Descriptions		Quantity	Per unit price	Extended Total
Supplies (Note: PCs under $5,000 go here. Also, use standard dollar amounts and replacement thresholds from sections 11/12, or provide explanation in sections 11/12.)	Item 1				$0.00
	Item 2				
	Item 3				
	Item 4				
	Item 5				
	Item 6				
	Item 7				
Equipment	Item 1				$0.00
	Item 2, etc				
Software (Note: Include Vendor and Product Name.)	Item 1				$0.00
	Item 2				
	Item 3, etc				
Maintenance or Contractual Services	Item 1				$0.00
	Item 2, etc				
Board of Regents Guidelines state "In almost no cases should technology fee revenues be used for … space renovation, or other items or activities that do not have a direct and immediate impact upon students instructional objectives." (See Attachment 1, #8)					
Construction Services (Requires review of Planning & Facilities)	Item 1				$0.00
	Item 2				
	Item 3, etc				
Network Connections and Infrastructure Costs (Requires review of UCCS)	Item 1				$0.00
	Item 2				
	Item 3				
	Item 4, etc				
Physical Security (Note: Costs normally should not exceed 2.5% of Total Requested.)	Item 1				$0.00
	Item 2				
	Item 3				
	Item 4, etc				
Other Expenses (explain)	Item 1				$0.00
	Item 2, etc				
Board of Regents Guidelines state "Technology fee revenues may be used - with caution - for new staffing that is either temporary or ongoing." (See Attachment 1, #6)					
Staff Salaries	Item 1				$0.00
	Item 2, etc				
Fringe Benefits	Item 1				$0.00
	Item 2, etc				
		Hours/wk		**Hourly Rate**	
Student Assistant Salaries	Item 1				$0.00
	Item 2, etc				
Graduate Student Assistant Salaries	Item 1				$0.00
	Item 2, etc				
TOTAL					**$0.00**

10. Consequences of Partial Funding

State what the consequences would be on the effectiveness and viability of the proposal if it were only funded in FY 2008 at the following percentages of the requested total:

Only 75% funded

The Saw Stop table saw is a prime objective of this proposal so must remain. However, if we only purchase 2 of the 3 Skutt kilns listed in our original proposal, the requested funding is reduced to close to 75% and the intent of the proposal remains viable. The safety issue in the Ceramics lab still be compromised, but certainly with the purchase of the remaining 2 kilns it will be decidedly better.

Object of Expense	Itemized Descriptions		Quantity	Per unit price	Extended Total
Supplies (Note: PCs under $5,000 go here. Also, use standard dollar amounts and replacement thresholds from sections 11/12, or provide explanation in sections 11/12.)	Item 1				$0.00
	Item 2				
	Item 3				
	Item 4				
	Item 5				
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	Item 7				
Equipment	Item 1				$0.00
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Fringe Benefits	Item 1				$0.00
	Item 2, etc				
		Hours/wk		**Hourly Rate**	
Student Assistant Salaries	Item 1				$0.00
	Item 2, etc				
Graduate Student Assistant Salaries	Item 1				$0.00
	Item 2, etc				
TOTAL					**$0.00**

Only 50% funded:

The Saw Stop table saw is a prime objective of this proposal so must remain. However, if we only purchase only 1 Skutt kiln listed the requested funding is reduced to close to 50% and the intent of the proposal remains viable**.**

Object of Expense	Itemized Descriptions		Quantity	Per unit price	Extended Total
Supplies (Note: PCs under $5,000 go here. Also, use standard dollar amounts and replacement thresholds from sections 11/12, or provide explanation in sections 11/12.)	Item 1				$0.00
	Item 2				
	Item 3				
	Item 4				
	Item 5				
	Item 6				
	Item 7				
Equipment	Item 1				$0.00
	Item 2, etc				
Software (Note: Include Vendor and Product Name.)	Item 1				$0.00
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Maintenance or Contractual Services	Item 1				$0.00
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Student Assistant Salaries	Item 1				$0.00
	Item 2, etc				
Graduate Student Assistant Salaries	Item 1				$0.00
	Item 2, etc				
TOTAL					**$0.00**

11. Standard Dollar Amounts

NA

12. Standard Replacement Thresholds

NA

13. Prerequisite, Non-Technology Fee Funding

NA

14. Matching Funds

NA

15. Staffing and Other Support Availability

NA

16. Space Availability and Impact on Facilities

Facility modification to support this initiative replaces an existing condition of a ceramics kiln being wired into an electrical disconnect box. Modification provides an electrical plug which is hard wired into the existing electrical disconnect box and provides the user the flexibility to un-plug and plug-in the ceramics kiln and other equipment. In the present configuration this flexibility is not provided. **Estimated cost is $250.00.**

17. Impact on Computing/Networking/Information Security Infrastructure

Information Security Review (Tammy Clark):

Impact: Yes

Assessment: Ensure that AV/ISS Proventia desktop software is installed on all wireless computers—contact security@gsu.edu for instructions.

Wireless and Network Ports Review (Mark Roberson):

Impact: Yes

Assessment: Please schedule wireless site survey of area with the IS&T HElPCENTER. Wireless access points based at $1200 per unit, includes network port, cable and access point. .

Server Connections (Charles Hollingsworth, Tammy Clark, Keith Campbell):

Impact: (No-CWH), No impact - KEC

Assessment:

External Connections (Charles Hollingsworth):

Impact: (No-CWH)

Assessment:

DVR Installations (Mark Roberson, Tammy Clark, Charles Hollingsworth):
Impact: No (No-CWH)

Assessment:

Lab and Classroom Configurations (Joe Amador):
Impact: Yes/No NO
Assessment:

18. Physical Security Needs

NA

19. Post-Project Assessment Criteria

The requested hardware and software are basic production tools for any 3-D program and will be used constantly. Enrollment numbers in classes especially dependent on these tools will be collected to gauge project usefulness.

20. Review and Acknowledgements

To: University Student Technology Fee Committee

From: Cheryl Goldsleger, Director, School of Art and Design

Re: Tech Fee proposal from 3D area

Date: March 1, 2007

This proposal ranks first among six proposals submitted by the School of Art and Design. We are requesting $14907.00 to fund additional safety technology in the 3D areas of the School of Art and Design. John Marshall, University attorney, addressed the department chairs at a meeting with Provost Henry recently. His emphasis was on issues of safety in labs across the University. The technology addressed in this proposal is crucial to the safety of students who take classes in these areas. The three digitally controlled kilns ensure safe conditions as students fire their ceramics at 2100 degrees F for 12 hour firing cycles. The Hyperglaze software ensures that student understand the inherent dangers of the chemicals they use and mix together. The Saw Stop Table is designed with an electronic skin sensing device, the stops the blade within 3-5 milliseconds of contact with human skin. Serious accidents have occurred in our 3D area and this funding request is an effort to upgrade safety standards in these areas and address University wide concerns over student safety. I am attaching two brief descriptions of legal suits at other universities that were sent to me by John Marshall to underscore the urgency of this funding request.* I am hoping that the Committee will agree that a perfect use of Student Tech Fee funds is to ensure student safety.

*Lei v. City University of New York, (N.Y.A.D. 1 Dept.)
November 8, 2006: Torts - Student injured in welding accident was entitled to $5 million for past and future pain and suffering. A city university breached its duty of care to a student who sustained serious burns while sculpting with an oxyacetylene torch in the university's metal lab. The university deviated from good and accepted safety practices by allowing the student to weld with dangerous equipment alone, without the presence of a fire watcher, and without proper protective outerwear. Contrary to its contention, the university's duty to the student was not satisfied by

equipping the lab with fire extinguishers and leather aprons, and by having the lab regularly inspected by the fire department.

Pritchard v. Von Houten, (Miss.App.)
February 9, 2007: Torts - Professor breached duty to take reasonable precautions to protect students from injury. The failure of a sculpture professor from a Mississippi University to place dry sand on the wet ground at a foundry during an iron pour demonstration to protect student participants from burns caused by foreseeable molten iron spillage breached the professor's duty to take reasonable precautions to protect the students from injury. Molten iron spillage was a common occurrence during iron pours. Also, molten iron would pop and fly into the air when it contacted wet ground.