

Engineering Student Technology Committee
Technology Fee Project Proposal
Must be submitted on or before April 16, 2000

Please use this form to request technology fee expenditures for equipment in classrooms, computer laboratories, or other instructional or research laboratories, in keeping with the State Board of Agriculture Charges for Technology Manual guidelines found at <http://www.colostate.edu/services/acns/itec/fee.html>. Technology committee members are available for assistance, the names of whom appear in Section IV. Also see Section IV for submission information.

Section I. Overview

1. Project Type

- departmental project (requested against departmental fund allocation)
 other project (may be for a single department or college-wide, but request is against central funds)
(\$83,000 is available for other projects; see department heads for department allocation amounts.)

2. Title of proposal

Modernization of the Glover Computer Lab

3. Submitted by (Name & contact information of primary submitter(s) – up to three)

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4. Proposal supported by*

See attached sheet of supporting societies.

* Proposals with wide-spread support from a cross-section of the college will be given preference. Although this form may be submitted electronically with a list of supporters, actual signatures are required for all supporters beyond the original submitter(s).

5. This project request

- does not pertain to facilities or equipment
 is to maintain and/or upgrade existing facilities (replacement equipment only requested)
 is to augment and maintain existing facilities (some new equipment requested)
 is to provide a new facility (all new equipment requested)

6. Brief summary of proposal (Please limit answer to no more than three paragraphs)

This proposal, supported by nearly all tech fee paying students in the College of Engineering, will purchase 20 new personal computers to be used by all faculty, staff, and students of the college in the general purpose Glover computer lab.

7. Location for proposed equipment:

Glover Computer Lab; Room 220, Glover Building

8. Equipment requested (complete only if proposal is for equipment and/or software):

<u>Specific equipment needed</u>	<u>number</u> <u>requested</u>	<u>unit</u> <u>cost</u>	<u>total</u> <u>cost</u>
Personal Computing System	20	\$1500	\$30,000

<u>Specific software needed</u>	<u>number</u> <u>requested</u>	<u>unit</u> <u>cost</u>	<u>total</u> <u>cost</u>

Total cost: \$30,000

Section II. Pedagogical considerations

1. What are the pedagogical goals of this proposal? (Please limit answer to no more than three paragraphs)

This proposal's goal is to modernize the oldest computers in the Glover computer lab by replacing them with newer, more modern systems. This will enable students to work more efficiently, more quickly, and perform more complex computer simulations and calculations than are currently allowed. This will allow everyone involved to learn more and to accomplish more complex tasks easier.

2. Why is the equipment requested appropriate for the goals stated in #1, above?

(complete only if proposal is for equipment and/or software):

Computers are one of the most essential pieces of equipment in an engineering education today, and are necessary in an increasingly large number of homework assignments, projects, and courses. These machines are needed to replace the obsolete Gateway Pentium 100 machines that can no longer handle the complex instructions and assignments in classes and research today.

3. How will the attainment of the goals in #1, above, be measured and who will do the measuring?

Feedback from students, faculty, and staff will indicate the effectiveness of this proposal and the attainment of its goals. The ENS staff will collect and evaluate the feedback.

4. Planned course/research benefit:

<u>Course No/Research projects</u>	<u>Number of students affected/semester</u>
Any course in the College of Engineering.	ALL tech-fee paying students
Any scientific course required by the College of Engineering	

5. What other courses/departments in the college will be able to use this facility for instructional use?

(complete only if proposal is for equipment and/or software)

All courses and departments in the college will have the option of using this equipment for educational and/or instructional use.

6. What functionality will this equipment provide that is not already available elsewhere in the college?

This equipment will provide more computing power and resources that are currently available. These modern systems will also provide expandability and upgradablility for future years. The current Pentium 100's are almost at the end of their useful lives, are no longer upgradable, and are technologically obsolete. The proposed new systems will also be able to execute more complex instructions faster and easier.

7. How many hours per week (M-F, between 7am and midnight) will this equipment be accessible for general student use? (complete only if proposal is for equipment and/or software)

These systems will be accessible 24 hours per day and 7 days per week to all tech fee paying students.

8. How will students be made aware of this project? (complete only if proposal is for equipment and/or software)

Students will be made aware of these systems when they enter the computer lab. Signs could also be posted informing students of the new equipment.

Section III. Operation, Maintenance, and Funding

1. Complete either A or B:

A. If this request is for student employee wages, who will be the supervisor of those students?
(the supervisor must sign here if name does not appear in Section I, #2 or #3)

B. If this request is not for student employee wages, who will be responsible for oversight and any installation, ongoing maintenance, or repair for this project?

(the responsible party must sign here if name does not appear in Section I, #2 or #3)

ENS will be responsible for the oversight, installation, operation and maintenance of these systems, as they are with all computers in this lab.

2. What operation & maintenance services would be needed from ENS staff? from department staff?

Only normal computer maintenance would be necessary. This includes periodically cleaning the screens, keyboards, mice, etc.

3. What modifications of current space will be necessary to install the new equipment? (remodeling, wiring, security, furniture, etc.)

No significant modifications will be needed. The old systems will need to be removed, and the new systems can occupy the same space.

4. Source of funding for the modifications in #3, above:

None is necessary.

5. Estimated cost of operational expenses (supplies, maintenance, supervision, student assistance, etc.):

No additional cost is necessary since these systems will be replacing existing units.

6. Source of funding for the expenses in #5, above:

Not Applicable

7. What other sources of funding (and how much) exist for this project (outside grants, equipment donations, reallocation of existing equipment, etc.)?

Possible discount from Hewlett Packard on equipment.

8. What attempts have been made to obtain the funds in #7, above?

None yet since students are not permitted to approach Hewlett Packard directly for grants, etc.