

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

Section I. Overview

1. Project Type

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

Print Quota Software

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

Mark Ritschard, Director, ENS
Craig Mapel, ENS Windows NT System Administrator
Mark Van Noy, ENS Windows NT client support

4. Proposal supported by*

* 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)

Establishing a print quota system to control printing costs in the college has become critical with the recent advent of distributed color printing. Installing software on ENS servers will provide a quota system for students in the college, both enabling them to print whatever they like as well as providing network access to color printing.

7. Location for proposed equipment:

ENS servers

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

<u>Specific software needed</u>	<u>number</u> <u>requested</u>	<u>unit</u> <u>cost</u>	<u>total</u> <u>cost</u>
Print Management Software	1	\$2,500	\$2,500
<u>Total cost:</u>		<u>\$2,500</u>	

Section II. Pedagogical considerations

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

The software requested is used to manage and set quotas for printers. This allows us to set reasonable and fair quotas for all printing resources. It also allows us to budget for the costs of paper and toner since these can then be budgeted as fixed costs. This is crucial to the teaching environment since the rising costs of printing and the complete lack of any reasonable way to restrict indiscriminate use of the printers threatens the ability of the college to provide printing resources at a reasonable cost.

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

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

By being able to meticulously manage a very limited resource we should be able to continue meeting more student printing needs without having to charge. However, by being able to monitor print jobs we will be able to offer more advanced printing services such as color laser printers and dye sublimation printers whose printing costs are much too high to be used for general printing.

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

We will be able to measure the impact of this software by observing the effects on the paper and toner budgets. Most likely the current ENS lab manager will be responsible for monitoring the impact on the budget and aiding in how quotas are set.

4. Planned course/research benefit: Course No/Research projects affected/semester Number of students

This software will affect all enrolled students that make use of Engineering printing resources managed by ENS.

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)

Any department that uses network printing resources through ENS managed print queues will be able to utilize this software package.

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

Currently there is no way for the Engineering College to monitor or effectively manage printing resources. Printers are handled by simply giving access to them and allowing anyone to print as much as they want. Generally this has not been a problem since that vast majority of people print responsibly. However, a few people's abuse of the lack of a quota coupled with the increase in the number of high quality color printers is beginning to clearly show the need to more fully control these resources. This software gives us the ability to effectively manage the costs of printing.

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)

There is the potential for 168 hours a week availability. The only real restriction to availability will be access to the computer labs which is dictated by when the buildings are locked and by the number of facilities that have printers and card readers for unmonitored access.

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

If a person is nearing their quota a message window will pop up at login and let them know how close they are to reaching their quota. Otherwise the system will be completely transparent. In fact, the average student should not be affected by this change

directly. However, if we can cut our printing costs by eliminating the wasteful printing jobs we can potentially save enough to either buy more computers or other 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)

Craig Mapel & CJ Keist of ENS

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

After the initial setup period there should be little required maintenance. Quotas can be set by groups and can be set to increase a specific amount in a specified time period. For instance, a quota of 500 pages for all black and white printers could be set to renew itself every semester without any human interaction. However, there would need to be a procedure in place for determining who can have an increase in their quota and under what circumstances. Because the goal is to set a quota high enough that the average user will not exceed it, the overall maintenance cost in time should be small.

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

None.

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

Not applicable.

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

any annual maintenance charges will be borne by ENS

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

see above

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

Potentially, the ENS budget could cover this software.

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

None.