

Engineering Student Technology Committee

<http://www.engr.colostate.edu/ESTC>

College of Engineering

Colorado State University

The Engineering Student Technology Committee (ESTC) invites proposals from students, faculty, and staff for technology related equipment to enhance the student educational environment in the College of Engineering at CSU. Each year, the ESTC allocates funding for strategic projects that will have a near-term benefit to students. This year, the committee is soliciting proposals in the \$5K - \$40K range. Proposals must be primarily for equipment and have a direct benefit to the educational mission of the college. Please review the Charge for Technology (CFT) manual for permissible use of CFT funds:

<http://ucft.colostate.edu.aspx/www.ucft/pdf/cftmanual.pdf>.

The ESTC is particularly interested in intra-departmental proposals or proposals that benefit a large cross-section of students. Partnerships with the ESTC that fund projects beyond the limitations of the CFT are especially compelling. Note that the committee is not, in general, interested in funding projects that are specific to a particular research group or that affect only a small number of students. To submit a project proposal, please complete this form and send it as an e-mail attachment to estc@engr.colostate.edu by April 30 for full consideration.

1. Title of Proposal: Lab Scanning Stations

2. Proposal Participants:

Primary Contact for Proposal

Name: Dan Herrick _____ E-Mail: dan.herrick@colostate.edu _____

Department/Major: Engineering Network Services _____

Circle One: **Staff**

Additional proposal participants

3. Proposal Abstract (limit to 100 words):

ENS proposes to eliminate scanners attached to PCs in the Anderson and Magellan computer labs, and replace them with dedicated scanning stations.

4. Proposal Budget

List of items to be purchased and cost

Note: This is a permanent funding allocation request.

Allocate 1 large format scanner to Orion Design Studio:	\$775
Allocate 1 PC + monitor to large format scanner in Orion Design Studio:	\$1,100
Re-Use existing large format scanner in Anderson Computer Lab:	\$0
Allocate 1 PC + monitor to large format scanner in Anderson Computer Lab:	\$1,100
Re-Use existing large format scanner in Magellan Design Studio:	\$0
Allocate 1 PC + monitor to large format scanner in Magellan Design Studio:	\$1,100
Remove 2 currently funded regular scanners in Anderson Lab:	(\$540)

TOTAL: \$3,535

Dollar or percentage amount requested from ESTC: \$3,535 in one-time funding plus \$883.75 annually

5. Full description of proposal:

Currently, the ESTC funds 2 regular scanners and 2 large format scanners throughout the college computer labs. These scanners are attached to PCs in the Anderson Computer Lab and Magellan Design Studio. Unfortunately, because they are attached to general use PCs, if a user wishes to quickly scan something, what the user frequently finds is that they walk into the lab and that PC is being used. The user must then either wait for the PC to be free, come back later, try to find a different scanner, or ask the current user of the PC to log out so that they can scan. None are ideal solutions.

The digital senders in the labs partially address this concern, but they are limited in that they cannot manipulate images through software, whereas a PC with a scanner attached allows a user to manipulate an image and re-scan as necessary. Essentially, a PC with a scanner attached is more versatile than a digital sender.

To address the difficulty of finding an open scanner, ENS proposes to install and maintain dedicated “scanning stations”, which consist of a scanner directly connected to a non-networked PC.

The PC should be non-networked so that it does not become a general use PC, which would perpetuate the problem. Users would use a USB flash drive or burn a disc in the optical drive to transfer their files. The PC will have limited software installed, essentially only to support the scanner and the optical drive. Because the PC has limited capabilities, it does not need to be a fully upgraded PC like the other workstations in the labs. The PC will be on a 4-year replacement cycle to match the scanner.

A number of other departments on this campus and elsewhere make use of the same principle of scanning stations; I can demo an example in the Journalism department if required.

Because the scanners in the labs are infrequently used, it makes sense to reduce the number of scanners to 1 fully-equipped scanner (e.g., a large format scanner) per major lab area: Anderson Computer Lab, Magellan Design Studio, and Orion Design Studios at the Academic Village.

Impact on computer seats:

- Magellan Design Studio: The scanning station can be located on an empty desk within one of the studios, so there is no loss of seats.
- Orion Design Studios: The scanning station can be located at the reception desk, so there is no loss of seats. This would be walk-up service only, no chair. Alternately, a Sun Ray from Studio 4 can be removed and replaced with a scanning station, for a further annual savings of \$233.
- Anderson Computer Lab: One Sun Ray will likely need to be removed, for a further annual savings of \$233.