

# Engineering Student Technology Committee

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

College of Engineering

Colorado State University

## 1. Title of Proposal: Poster Paper Cutter for Scott or Engineering Building

### 2. Proposal Participants:

*Primary Contact for Proposal*

Name: Brett Beal \_\_\_\_\_ E-Mail: [Brett.Beal@colostate.edu](mailto:Brett.Beal@colostate.edu)

Department/Major: School of Biomedical Engineering \_\_\_\_\_

Check One:  Faculty  Staff  Student

*Additional proposal participants*

Name: Charlotte Mitchell \_\_\_\_\_ E-Mail: [cmit2013@rams.colostate.edu](mailto:cmit2013@rams.colostate.edu)

Department/Major: School of Biomedical Engineering/BME-CBE \_\_\_\_\_

Check One:  Faculty  Staff  Student

*Additional proposal participants*

Name: \_\_\_\_\_ E-Mail: \_\_\_\_\_

Department/Major: \_\_\_\_\_

Check One:  Faculty  Staff  Student

### 3. Proposal Abstract (limit to 100 words):

Having at least one cutter available in a more central location for engineering students would be beneficial for late night printing trips or when inclement weather is happening. Also, transporting freshly printed posters, even with allowing for them to dry, can cause the ink to smudge and the poster to crinkle, ruining the overall effect of the material on the poster. Have a cutter closer by would decrease these mishaps. After spending a lot of time and effort into the making of the poster, it would be saddening to have it be made imperfect.

### 4. Proposal Budget

*List of items to purchase and cost of each*

- \$315, cuts 59 in paper, "low cost, top quality rotary trimmer," a reduced price may be offered for schools: [http://www.papercutterstore.com/rotary\\_trimmer\\_1346\\_15434.html](http://www.papercutterstore.com/rotary_trimmer_1346_15434.html)
- \$480, cuts 51 in paper. Self-sharpening blade, this can cut posters from the 44 in plotters, which are the standard plotters to use for posters used in presentations: [http://www.staples.com/51-1-8-Professional-Rolling-Paper-Trimmer/product\\_103452](http://www.staples.com/51-1-8-Professional-Rolling-Paper-Trimmer/product_103452)

- \$595, cuts 60 in paper, attaches to table edge, space saving, could store behind plotter, then when needed, attach to table in Atlas Design Studio, a reduced price may be offered for schools, can cut width of the posters from the scott-44-plotter. "5-year comprehensive guarantee (excluding replacement cutting wheels), 20-year sliding track and slide bearing guarantee against failure. 30-day, no hassle, money back guarantee." [http://www.papercutterstore.com/60\\_Inch\\_Table\\_Edge\\_Rotary\\_Paper\\_Cutter\\_1346\\_15003.html](http://www.papercutterstore.com/60_Inch_Table_Edge_Rotary_Paper_Cutter_1346_15003.html)
- \$970, cuts 60 in paper, hinge and lift arm mechanism allows for longer than 60 in materials to be cut, a reduced price may be offered for schools: [http://www.papercutterstore.com/60\\_Inch\\_General\\_Purpose\\_Rotary\\_Paper\\_Cutter\\_1346\\_14996.html](http://www.papercutterstore.com/60_Inch_General_Purpose_Rotary_Paper_Cutter_1346_14996.html)

However, option (3) appears to be the best option for quality and price.

*Dollar or percentage amount requested from ESTC: \$595 plus shipping and tax if option (3) is chosen – From the given website a reduced price may be offered to schools.*

## **5. Full description of proposal:**

### **As presented by Charlotte Mitchell:**

Having at least one cutter available in a more central location for engineering students would be beneficial for late night printing trips or when inclement weather is happening. I have personally had to bring posters from the Scott building to the library to cut when it was raining out. While I was able to ask the Success Center for a large enough bag, this option will not always be available to other students as I was doing this for my job. Also, transporting freshly printed posters, even with allowing for them to dry, can cause the ink to smudge and the poster to crinkle, ruining the overall effect of the material on the poster. Have a cutter closer by would decrease these mishaps. After spending a lot of time and effort into the making of the poster, it would be saddening to have it be made imperfect.

A cutter is a necessary tool for posters because of the way they print. The length of the poster needs to be longer than the width when setting up the print settings. This means that landscape posters (which I believe is more common) are printed with about 1/3 of the paper being white space. A poster cannot be presented this way, nor would it meet any size requirements. While scissors could be used, a straight line would not be guaranteed. A cutter offers a more precise way of measuring where to cut and ensures a straight line (as long as the user uses it properly).

Below are a few paper cutter options that could be installed in Engineering or Scott for engineering students to use to cut presentation posters down to size. Currently, I only know of one cutter on campus, which is in the library. The library has 2 44-plotters while the college of engineering has 3 plus a 4th 60-plotter. Since seniors spend so much time getting their posters ready for the senior design showcase, it makes sense to provide them with a cutter for them to remove the white space that always seems to happen upon printing. I'm sure during the month of April, many other students in different majors are printing and cutting posters as well. If there is room in the technical fees budget to purchase a cutter for engineers to use, we can reduce the work load on the cutter in the library and open it up for other students to use.