

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 - \$10K 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 priedo@rams.colostate.edu by March 29th for full consideration.

1. Title of Proposal: Replacement GPS Unit

2. Proposal Participants:

Primary Contact for Proposal

Name: _Joe Wilmetti _____ E-Mail: _wilmetti@engr.colostate.edu _____

Department/Major: Civil & Environmental Engineering _____

Circle One: **Student** **Staff** **Faculty**

Additional proposal participants

3. Proposal Abstract (limit to 100 words):

Replacement of existing Trimble GPS equipment

4. Proposal Budget

List of items to be purchased and cost:

See attached quote.

TOTAL: \$14,150.00

Dollar or percentage amount requested from ESTC: \$9434.00 (66%)

Cost would be split 2/3 ESTC and 1/3 CEE Department.

5. Full description of proposal:

The CEE department has been using a Trimble GPS System for our classes in surveying, GIS & GPS for the last 10 years, and the equipment has become very outdated. It is not capable of communication with the newer satellite systems, and no longer represents the “state of the art” equipment that we would like our students to be exposed to. The unit that we propose purchasing is a complete Topcon GPS Educational System Package - **KIT,EPP GR5 UHF440-470 GSM**. This kit is a complete system, and is being offered to Universities at a 50% discount through Topcon’s Educational Partnership Program. It will be used extensively in the CIVE 102, 203, and 576 classes, as well as be available for student use in Senior Design projects. This package would give the students “hands on” experience with the current technology, as well as exposure to the type of equipment that is currently being used in industry.



Educational Partnership Program

GPS Educational Package

Colorado State University



Topcon Part No	Description	Qty	EPP Price
99-094905-04	KIT,EPP GR5 UHF440-470 GSM	1	\$13,900.00
<i>Consisting of the following:</i>			
Receivers			
99-094903-02	KIT, GR-5 DUAL GD Dig UHF 440-470 GSM	1 Set	
30-050503-01	ANTENNA,UHF 450-470 MALE BNC	1 Set	
22-050501-01	TRIPOD, HEAVY DUTY W/BAG	1	
22-050908-01	POLE, 2M FIXED HT RANGE	1	
27-090902-01	OAF,GR-5 STANDARD RF OPTIONS,UNLIMITED	2	
27-090902-03	OAF,GR-5,GLONASS L1/L2 TRACKING,L5, L2C	2	
61068	Magnet Office Tools and Post Processing	3	
61082	Magnet Enterprise 12 months	1	
61064	Magnet Filed Complete	1	
61111	Tesla GEO 3G, WIFI, BT, GPS Camera, GSM modem	1	
<u>Additional Optional Accessories</u>			
	Shipping Costs		250
Price for Educational Partner w/ accessories			\$14,150.00
	Dealer Installation and training		tbd
	Quote valid for 60 days/Total Cost:		
EPP GR-5 UHF GSM-Tesla / Magnet			