2010

Go Green, Get Lean

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Big iDeas at SMU

http://www.smu.edu/bigideas/

Template for 2010 Proposals

Deadline for Submission:	Thursday, January 29, 2010
Method of Submission:	Electronically, to bigiDeas@smu.edu
Length of Proposal:	No specific word minimum or maximum, but approximately 3-5 pages is expected
Content:	Please include the following in your proposal. You may use this form or a submission that includes all the following information.

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1. Title of Project: Go Green, Get Lean

2. List of Student Participants

Student name: Kyle Trobough
Email: ktrobough@smu.edu
Cell phone: 785-224-6576
Major(s): Mechanical Engineering/ Pre-Med
Year of Study: Sophomore

Student name: Alexandra O'Neal
Email: alexo@smu.edu
Cell phone: 785-213-3184
Major(s): Broadcast Journalism
Year of Study: Sophomore

(repeat for additional participants)

3. Faculty cooperator, if any

4. Statement of the problem or issue, proposed methodology, and rationale.

In this section, you should set out the problem or issue you plan to address (statement of the problem), the methods and types of actions that your team will use in addressing the topic (proposed methodology), and what benefits and insights you think your project should yield (rationale). You can provide this information in narrative form, but be sure to address each aspect.

The problem that I would like to fix with my Big Idea is the energy problem. SMU uses a large amount of energy every single day, but it is not fully being renewed. The SMU

Dedman Center for Lifetime Sports has students passing through its gates everyday, all day long. I see this has a great solution to the problem I proposed above. If SMU could harness the energy these runners "create," we could then in turn power the recreation center for less money. My solution involves using the system called ReRev which takes the energy produced by runners using the elliptical machines and use that to power the Dedman Center. We would just start there. After this starting trial period I feel we could also have the treadmills, stair climbers, and stationary bikes producing renewable energy also. Eventually my goal is to have the entire recreation center being powered by gym-goers, and maybe one day the entire campus.

5. Proposed Timeline

This does not need to be precise and to the day. But please set out the stages or steps that you expect to follow, how long you expect these to take, and when you will begin to reach conclusions.

I do not have a set timeline but ReRev would have to come out and do an inspection. After that we would go through I trial period and if we feel like we are getting significant power back we would continue to broaden the machine that produce energy.

6. Anticipated Budget[1] Complete in detail the following:

Supplies and equipment (e.g., pH meter, video camera)	_____N/A_____
Travel	_____ N/A _____
Copying or printing expenses	_____ N/A _____
Mailing expenses	_____ N/A _____
Other (specify)	_____ N/A _____
Total anticipated budget:	_____ N/A _____
Person responsible for funds:	Kyle P. Trobough
Signature of person responsible for funds:	Kyle P. Trobough

I have not heard back from the makers of this device to find out how much it would cost to install. However, I am still researching it and trying to find out so if my proposal is being considered please let me know so that way I can continue to look for pricing options.

[1] The budget is subject to SMU policies relating to grant expenditures—thus, for instance, purchase of computer or video equipment requires specific justification and a statement of how the items will be used, and these funds may not be used for purchase of phones.