

Project Proposals - 2017

University of Saskatchewan Innovative Energy Team

Preamble

USIET offers to fund projects related to energy. Whether its energy generation, storage, transfer, application, etc. These projects range from anywhere to 100\$ to a few thousand. Projects are a corner stone for USIET. At Spectrum 2016, we showcased 3 projects and we won the award for Most Technical Display. This award was validation that our projects were worthwhile. The projects are meant for engineering students to get hands on experience with energy systems, beyond what's offered in the regular curriculum. Think about this, would your prospects for getting a job at Tesla Motors be slightly higher if you built a battery from scratch? I would think so!

USIET was founded on the basis that "no idea is a bad idea". If we didn't think this way, we likely wouldn't have made our battery or wind turbine. Another belief is that failure is necessary on the path to success. So long as the project was done to the best of those individuals' abilities and they learned valuable team work, project and design skills it is still worthwhile. It should be mentioned that while thinking of a project, be realistic, and understand that you are fabricating a prototype or proof of concept.

Below are the loose requirements for what is required to start a project through USIET. There is no right way to do this and you are for once not being graded. We just want to see you put some thought into your projects. So please read and if you're interested submit your proposals and be ready to present your proposal to the group in an attempt to get funding and access to our tools and resources. Also, please spread the word get people interested!

Deliverables, dates and times

Submission

Project Proposals must be submitted before **February 24th 5:00pm** to USIET.VP.Communications@sess.usask.ca

The submission criteria are outlined below. Successful applicants will be contacted prior to the presentations.

Presentations

March 3rd, 2017. Location is TBD.

Please prepare a presentation that touches on the criteria below. Also, many club members will be interested in potentially wanting to work on the project. We would ask that you are open to this and allow people to sign up for projects to lend hands. Whoever is submitting the proposal can outline which positions they need, as they will likely be the project lead.

Aim for a 6 to 10-minute presentation (no more than 15 minutes), and be prepared for a question period following your presentation.

Proposal Submission

Provide a short, written proposal (no more than 6 pages, not including cover/appendices), including the following requirements. *Consider creating your presentation at the same time as the proposal, as many of the points are common.*

Requirements

I. Background and Overview

- Information and overview about the project
- Objectives, potential applications and uses
- Basic market research (Current solutions)
- Some analysis and feasibility
- See if any competitions or prizes exist that fit with your project.

II. Design

- Drawings, schematics or drafting, Solid Works drawings*, etc.
- Rough outline of the design and fabrication process
- Materials and tool requirements
 - We will evaluate if we need to buy the tools, or if we can find availability of the tool

III. Budget

- A liberal budget and a conservative budget
- Provide an average of the two and USIET will budget for this amount accordingly
- *Subject to change obviously, but we need an idea of how much it will cost*

IV. Timeline

- Milestones, Gantt Chart, schedule, etc.
- *Since the project timeline may evolve, this initial schedule may be subject to change, however sufficient time and effort should be put into developing a realistic schedule*

V. Team

- Outline team and roles
- Either come with full team or outline which spots need to be filled
- Outline skills that are needed for the project (SolidWorks, HYSYS, electrical, construction skills, etc.)

VI. Fit

- Lastly, explain how this will fit USIET
- Familiarize yourself with our mission statement and vision (found at www.usiet.com) and explain how your idea contributes to this.