**2023 Spring Engineering Project Showcase (EPS)**

This template was designed to help teams ***collect information*** required for their team registration during a team meeting and then the primary member will use this information to register the team at the Showcase Portal. *You do not need to submit this form anywhere.*

* **PRIMARY MEMBER: Nathan Gil (nateg580@tamu.edu)**
* **PROJECT CATEGORY**: Electrical Engineering
* **INDUSTRY SECTOR** - We ask each team to identify, if appropriate, a market segment aligned with their project. The five areas listed below are the research priority areas for College of Engineering at Texas A&M:
  + \_X\_Energy
  + \_\_\_Healthcare
  + \_\_\_Infrastructure
  + \_\_\_Manufacturing
  + \_\_\_National Security
  + \_\_\_Other
* **PROJECT TITLE –**  AC / DC Solar System \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **PROJECT DESCRIPTION:**

Currently about 80% of household power is generated from non-renewable energy sources. This contributes to pollution, causing environmental harm including temperature increase and an increase of weather strengths. Furthermore, most electronics that use AC power have to be charged to a stationary power source. The goal of the Solar/Battery Power System is to provide the user with an independent renewable power system, capable of charging both AC and DC electronic devices. The device also has a battery storage that can provide energy to the charging devices when external conditions inhibit the solar panel from harnessing energy from the sun. This addition ensures security for our sponsor during nighttime, while away from stationary power sources, and while the solar panel has interruptions from the clouds.

* **TEAM MEMBERS –** Add all members of your team, including the primary member

|  | First name | Last name | TAMU email |
| --- | --- | --- | --- |
| Member 1 – Primary | Nathan | Gil | [nateg580@tamu.edu](mailto:nateg580@tamu.edu) |
| Member 2 | Lauren | Lugo | [llugo@tamu.edu](mailto:llugo@tamu.edu) |
| Member 3 | Tarik | Dawson | [french-horn558@tamu.edu](mailto:french-horn558@tamu.edu) |
| Member 4 | Clement | Ong | [clementong@tamu.edu](mailto:clementong@tamu.edu) |

* **FACULTY SUPERVISOR & EMAIL**
  + The name of the faculty who is mentoring the team: Professor Stavros Kalafatis
  + The email of the above faculty: skalafatis-tamu@tamu.edu
* **PROJECT SPONSOR**
  + **TYPE** – Choose one from the list below:
    - \_\_\_Industry sponsored capstone
    - \_\_\_Government sponsored capstone
    - \_X\_Faculty sponsored capstone
    - \_\_\_Other
  + **NAME** – List the name of the organization who is sponsoring your project. Examples: Boeing, US Air Force, TAMU – Department of Mechanical Engineering
    - Peng-Hao Huang (alexamiiah79@tamu.edu)
  + **SPONSOR APPROVAL** –All teams are required to have approval from their project sponsor before uploading their project videos. Check one below:
    - \_\_\_\_**Yes,** we have received sponsor approval
    - \_\_\_\_**Not Yet**, we are still waiting for sponsor approval
* **ELECTRICITY REQUIREMENTS** – Select yes or no if your project requires power to support your prototype on the day of the Showcase. 
* **EXTRA SPACE REQUIREMENTS** – Choose one from the list below:
  + \_\_\_No, we need a regular booth inside ZACH
  + \_\_\_Yes, we need a booth inside ZACH with extra space to accommodate a large project
  + \_X\_Yes, we need a booth outside ZACH

**What is NEXT?**

Your primary team member will use this information to register your team by the deadline (02/28/2023) at the **Engineering Project Showcase (EPS) Portal** ([link](https://tamueps.secure-platform.com/a/))

**Note:** To register your team, you DO NOT need to create an account. At the **EPS Portal** ([link](https://tamueps.secure-platform.com/a/)), choose **STUDENT REGISTRATION** and then click on the **TAMU SSO** box.

Use your TAMU credentials to access the team registration page.

**If you have any questions, email us at inp@tamu.edu**