Engineers Without Borders – Penn State University Student Chapter builds a better world through engineering projects that empower communities to meet their basic human needs. Our student volunteers consist of a multidisciplinary group of undergraduate students who aspire to apply what they are learning in the classroom in order to give back to members of our communities.

Penn State Engineers Without Borders
123 Hammond Building
University Park, PA
16802

Email: development.psuewb@gmail.com
Website: https://sites.psu.edu/psuewb/
The Penn State University Student Chapter of Engineers Without Borders (PSU-EWB) was founded in 2009 with the help of Professor John Lamancusa as part of an initiative by the Department of Mechanical Engineering. Since its founding, PSU-EWB has been involved in many domestic and international projects in places such as Sierra Leone, Honduras, as well as Pennsylvania and Louisiana. In Sierra Leone, our organization installed a system of sanitary latrines for a school. In Honduras, our organization installed a solar array that was used to power a system to provide clean water to a community near Roatán. We have also completed a project local to State College, PA. At the MorningStar Solar Home, we developed a rainwater catchment system to distribute water to their gardens. Largely, we participate in projects concerning sustainability and efficiency in the development of energy, water, and food systems.
Our Current Partnership

Location: Namutamba, Uganda

- ~80 km from Kampala, Uganda
- Current distance to water source ~ 2.5 km (~1.5 mi)

Population: 3900

- Income is mostly based on subsistence farms growing crops such as tea, coffee, bananas, and beans
- Additionally, the community was built around a tea estate and dairy farm, which provides employment to many members of the community

Issues:

- Reliable access to clean water
- Water sources near the community are beginning to dry up and the dry season is becoming longer each year
- Women and children often miss work or school to collect acidic, polluted water that has been contaminated by washing activities and animals
- Waterborne illnesses are also common in the community, straining their limited healthcare system and causing people to miss school or work

Partners:

- Namutamba Community Welfare Organization
  - Community-Based Organization
  - Assists with scheduling housing, meals, and transportation during visits
- Rotary Club of Mityana
  - Non-Government Organization
  - Organization that sought out a partnership with an EWB Organization
  - Assists with anything they can
- James Ssonko
  - Local district water engineer
  - Contributes valuable technical knowledge about the project scope, the area around the community, and construction process costs

Completed Milestones

EWB-PSU is two years into a five year partnership with the people of Namutamba, Uganda. So far, we have made terrific progress building a relationship with the community, performing crucial testing, and planning for the installation of a bore hole, water pump, and water distribution system.

- Assessment Trip and Testing — Eight EWB-PSU students travelled to Namutamba, Uganda to determine the feasibility of providing clean, reliable water and build a relationship with the community.
- Remote Implementation — Unfortunately, COVID-19 prevented our members from travelling to Uganda to monitor the drilling process. However, our contractors are expected to drill the borehole mid-August 2020, lay a foundation, and install a hand pump.
Sponsorship Opportunities

Building Supplies and Materials

◆ Storage Tank & Installation — $7,000 - $15,000
◆ Storage Tank Elevation — $3,000
◆ Pump House & Construction Materials — $2,000

Travel

◆ Flights — $1,500 per student per trip; $15,000 total per trip
◆ Hotel — $1,000 per trip

Club Events

◆ EWB Collegiate Conference — $500
◆ General Body Meeting Food — $200
◆ Internal Mentoring Program — $200
◆ EWB Participation Incentives — $100

With any donation, EWB-PSU is very eager to offer a number of incentives:

◆ Mentions in Social Media - As a corporate sponsor, you will be mentioned in our social media account that is followed by former Engineers Without Borders members, Penn State alumni, and anyone else who may be interested in our work.

◆ Attendance at Meetings and Events - EWB-PSU is happy to coordinate a presentation about your company, networking events, and/or professional development topics with representatives from your organization.

◆ Logos on Our Club Merchandise - At our club’s meetings and events, you can be certain you’ll see many students sporting Engineers Without Borders merchandise in order to raise more awareness for our club. With your logo on our merchandise, you can be sure that your company or organization will gain more publicity and will be associated with our humanitarian cause.

◆ Access to our Resume Book - Members of PSU-EWB include their resumes to a comprehensive resume book so that companies who are interested in hiring from our club can do so. By being a corporate sponsor, you gain access to our resume book and will have access to a fantastic list of potential employees who already have experience as a result of the projects that they carry out in this club.

Other PR incentives available by request
Thank you for taking the time to learn more about EWB-PSU. We are a group of students that are dedicated to engineering creative solutions to challenging problems. If you have any questions, please do not hesitate to reach out to development.psuewb@gmail.com or pennstate.ewb@gmail.com and we will get back to you as soon as possible.

Meet our Executive Board

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<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>Year</th>
<th>Major</th>
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<tbody>
<tr>
<td>President</td>
<td>Grant Bonas</td>
<td>Senior</td>
<td>Electrical Engineering</td>
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<tr>
<td>Vice President</td>
<td>Alexa Ferchaw</td>
<td>Senior</td>
<td>Industrial Engineering</td>
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<tr>
<td>Development Lead</td>
<td>Briana Long</td>
<td>Senior</td>
<td>Chemical Engineering</td>
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<tr>
<td>Project Lead</td>
<td>Davina Stamp</td>
<td>Sophomore</td>
<td>Biomedical Engineering</td>
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<tr>
<td>Project Lead</td>
<td>Anthony Paiva</td>
<td>Graduate Student</td>
<td>Electrical Engineering</td>
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<tr>
<td>Media</td>
<td>Nataniel Kisten</td>
<td>Senior</td>
<td>Computer Engineering</td>
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<td>Treasurer</td>
<td>Gwen Loaec</td>
<td>Junior</td>
<td>Civil Engineering</td>
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<td>Logistics Lead</td>
<td>Jason Rispler</td>
<td>Senior</td>
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<td>Secretary</td>
<td>Jenna Zhang</td>
<td>Sophomore</td>
<td>Mechanical Engineering</td>
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<tr>
<td>Internal Development Lead</td>
<td>Rodrigo Martinez</td>
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<tr>
<td>Grant Chair</td>
<td>Michael Saylor</td>
<td>Sophomore</td>
<td>Engineering</td>
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