



# Engineers for a Sustainable World Northwestern University (ESW-NU) Fact Sheet

The Northwestern chapter of Engineers for a Sustainable World (ESW-NU) is an interdisciplinary group of undergraduate and graduate students focused on meeting the global challenges of poverty and long-term sustainable development. ESW is a national nonprofit organization comprised of a global network of more than 3000 students and professionals committed to project work in this field. The Northwestern chapter is currently engaged in several grassroots engineering projects internationally and locally (see below).



## Wastewater Treatment Plan (Portobelo, Panama)

- **Problem:** Untreated wastewater in the town is damaging the local colonial-era landmark, contaminating the drinking water, and polluting the bay, where residents swim regularly
- **Solution:** Design a cost-effective, easy to maintain, and replicable system to treat the wastewater
- **Expected Results:**
  - Improved public health
  - Enhancement of tourism and the local economy
  - Preservation of the national landmark

## Solar Recharge Station (Santo Domingo, Panama)

- **Problem:** The only electricity the ranching community has is from car batteries that need to be recharged in Panama City, which is not easily accessible
- **Solution:** Design a centralized solar photo-voltaic system that can be installed locally
- **Expected Results:**
  - Consistent electricity for the community
  - Improved standard of living



## Sustainable Shuttle Stop (Northwestern University, USA)

- **Project:** Design and build a shuttle stop on campus made of recycled and environmentally friendly materials
- **Goals:**
  - Increase awareness of sustainable design on campus
  - Provide riders with a comfortable place to wait for the shuttle
  - Strengthen sense of community on campus

## The Team

The members of ESW-NU consist of a multidisciplinary group of dedicated and talented undergraduate and graduate engineering students currently studying at Northwestern University who volunteer their time and energy to make a difference globally.



For more information please see our website at [www.eswnu.org](http://www.eswnu.org)