

# University of Cincinnati Engineers Without Borders (EWB-UCIN)

The purpose of EWB-UCIN is to carry out the mission of EWB-USA through the development and implementation of its own economically sustainable engineering projects with disadvantaged communities in developing countries while encouraging its members to become internationally responsible professionals and students.

A key ingredient for the success of our chapter is finding a professional who shares the same passion as we do. We are seeking an individual to serve as a project mentor with the following desired qualifications:

- Experience in water supply and purification (Hydrology)
- Willing to meet 1 time monthly, in person
- Available for communication throughout project (email, phone, etc.)
- Experience with/traveled to third world cultures

The chapter would seek leadership and guidance from the mentor in the following areas:

- Technology selection
- Engineering design
- Prototype testing (if applicable)
- On-site assessment (approximately 1 week of traveling)
- Field implementation (approximately 2 weeks of traveling time)

EWB-UCIN is not soliciting any monetary contributions to the organization from the mentor. We only seek guidance and direction for the design of our project and a willingness to travel for assessing and implementing our project. All travel and necessary expenses will be covered by EWB-UCIN.

Currently EWB-UCIN is looking at and applying for two potable water projects (only one project will be taken on by the chapter), one is in Honduras and the other is in Cameroon. The Honduras Project involves the construction of a small dam/spring box or similar, supply line, storage tank, and distribution system to bring potable water to a rural village with 31 homes (~250 people). Currently the women and children of the village use buckets or hoses to bring the water to their homes from nearby springs. The proposed project strives to provide more free time to the women and children for more productive and educative reasons, and to improve the health of the community by limiting the water-borne diseases, preventing infectious skin diseases, and enhancing the sanitation practices.

The Cameroon Project also deals with potable water. Not much is known about what type of water purification and supply system will be needed. There will be an assessment trip taken for the purposes of gathering all necessary data for the completion of the project. The impacted village is host to approximately 300 people whose health suffers from contaminated water. The water consumed by the village currently comes from the same source that houses dead animals, contains water-borne diseases, and is plagued by flooding during the rainy season.

For further information about EWB, please visit the national website ([www.ewb-usa.org](http://www.ewb-usa.org)). If you are interested in or would like more information about serving as a mentor for EWB-UCIN, please contact use at your earliest convenience.

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