



Updated June 15, 2020

Design Outreach

Project Engineer, R&D

Organization:

The vision of Design Outreach (DO) is to see marginalized and low-income communities transformed physically, economically, and spiritually. The mission is to alleviate global poverty through life-sustaining technology.

Position:

Reporting to the Chief Technology Officer (CTO), the Project Engineer will have responsibilities of guiding technologies through the product development cycle and working closely with volunteer teams and suppliers to ensure on-time completion of project objectives. A new position in the organization, the Project Engineer position is a full-time permanent position with benefits and requires support raising.

Key Responsibilities:

Research & Development

- Partner with engineering volunteer teams across industry, academia, and/or church communities to develop new appropriate technologies.
- Work with Field Programs department to field test and implement technologies.

Stewardship

- Support-raise launch and annual funds, maintain consistent and appropriate contact with ministry partners.

Key Responsibilities Details:

- Professionally represent Design Outreach while interfacing with various volunteer groups
- Provide volunteers with information and support needed to successfully accomplish project objectives
- Implement user centered design principles, such as voice of customer (VOC) and ethnographic studies, to discover user requirements
- Generate CAD models and drawings
- Design and implement engineering test methods, both experimental and analytical, to verify that product performance meets requirements
- Review technical content for accuracy such as drawings, models, engineering analyses, test reports that are developed by outside resources such as volunteer teams and suppliers
- Partner with DO field staff to develop field test protocols and review test results
- Write technical reports to document design history and test results
- Support-raise launch and annual funds, maintain consistent and appropriate contact with ministry partners

Requirements:

doutreach.org
PO Box 82435
Columbus OH 43202

Alleviating global poverty through life-sustaining technology

- Understands and supports the mission of a Christ-centered organization dedicated to sharing the Gospel by word and deed.
- Passion and agreement with Design Outreach's vision and mission.
- Kingdom and abundance minded when working with ministry partners.
- Strategic planning and oversight of engineering projects including developing, managing, and finalizing scope, budget, timeline, MOUs, etc.
- Strong communication (writing, oral and presentation) and interpersonal skills.
- Self-motivated and detail oriented.
- Excellent verbal, grammar, computer, and Word/Excel/PowerPoint skills.
- Ability to provide presentations to coworkers and volunteers.
- Intermediate to advanced skills in CAD and statistical analysis
- High capacity to multi-task, work independently, manage volunteers, and problem solve.
- Ability to commit an average of 8 hours per day 5 days per week (40 hours total per week), with availability in evenings and weekends to support special events, accommodate volunteer/donor schedules, and ensure deadlines are achieved.
- Works from office in Columbus, Ohio with ability to travel domestically and internationally to meet with staff and/or partners.
- Ability to work in a team-based collaborative environment.

Required:

- BS degree in an applicable (mechanical, electrical, or biomedical) engineering field; MS a plus.
- References.

Timeline:

- Position start date is negotiable, and interviews will be ongoing until position is filled.