

Civil Engineer Volunteer

DESCRIPTION



Grassroots Non-Profit Civil Engineer Volunteer **With Vera Aqua Vera Vita**

Vera Aqua Vera Vita is a grassroots nonprofit organization founded on the mission of “tapping into the physical and spiritual nature of water to empower people and communities in developing countries to generate clean water and sanitation solutions that bring ‘True Water True Life.’” We are a small and a relatively young organization with a lot of opportunity for growth and impactful contribution. Visit our website at VeraAquaVeraVita.org.

Job Description: Meaningful, professional, and fun volunteer civil engineering working closely with the Founder & Executive Director and the in-country project liaison and on-the-ground support team of Vera Aqua Vera Vita to help accomplish the mission of Vera Aqua Vera Vita by supporting in civil engineering services such as but not limited to data collection, water & wastewater conveyance system design, hydrologic & hydraulic analyses, water & wastewater treatment system design, cost estimation, database management (including map feature attributes), ArcGIS map building, Civil 3D computer aided design drafting and plan development, and report and final deliverables production.

Minimum Qualifications:

- Belief in/Supporting of Vera Aqua Vera Vita’s mission
- Willingness/motivation to learn & ability to quickly grasp new software, etc.
- Bachelor of Science in engineering from an ABET Accredited University
- Civil engineering experience (3 years minimum of professional skills preferred)
- Ability to work in a volunteer/team environment both in person and on the phone
- Self-motivated to complete projects, meet deadlines, and function independently without much oversight
- ArcGIS Software Experience (preferred but not required)
- Civil 3D Computer Aided Design Experience (preferred but not required)

Scope of Role:

- Data Collection
- Capital Improvement Project Evaluation and Prioritization
- Water & Wastewater Conveyance System Design
- Hydrologic & Hydraulic Analyses
- Water & Wastewater Treatment System Design
- Cost Estimation
- Database Management (including Map Feature Attributes)
- ArcGIS Map Building

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- Civil 3D Computer Aided Design Drafting and Plan Development
- Report and Final Deliverables Production
- Committee participation promoting Vera Aqua Vera Vita when assigned
- Participation in special event planning when assigned, for example: Annual Fundraiser

Expectations:

- Estimated hours per week: 5-10 hours minimum
- Accountable to meet strict deadlines, *with exceptions*
- Bi-weekly Status Meeting with supervisor on assignments as needed
- The exact duration of the volunteer role will be determined during negotiations

Our (VAVV) Commitment:

- To provide the opportunity to work within a team of technical experts in a professional non-profit organization
- To provide an opportunity to learn, grow, and be creative in helping to vision VAVV for the future
- To provide a letter of recommendation, if requested, if all work requirements and professional standards were met during the internship period
- To provide experience working within a volunteer-based organization

How to sign-up:

- Visit <https://www.myvolunteering.com/veraaquaveravita/>, select the appropriate volunteer role, create your volunteer account, and submit the sign up form.
- Then email Jacob Niemeier at jniemeier@veraaquaveravita.org that you are ready to begin volunteering.
- Phone calls to Jacob at **317-670-6293** are welcome if you have questions, feedback, or want more information.