Community Engineering Corps: Introduction

Agenda
Intro Video
The Mission
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Examples
Assistance from Sections
Who Are We?

An alliance of more than 200,000 technical professionals and students

Mission

Bring underserved communities and volunteer engineers together to advance local infrastructure solutions
Intro Video Link
Volunteers
The engine that drives the program

- Only association members can volunteer, either student or professional.
- You don’t have to technical to be a great team leader or member (but every project needs at least 1 registered Professional Engineer)
- 1 year commitment, and your team decides the scope.
Who needs us?

**Large Municipalities and Utilities**

**Engineering Consultants**

**State Regulators and Funds**

**Federal Agencies**

**Non-Profits**

**Underserved Communities**
- Rural and urban economical disadvantaged
- Underfunded NGOs/CBOs
- Small municipalities and utilities
- Communities w/ chronic regulatory compliance concerns.
- Informal residential areas

**Barriers to Service**
- Financial capacity
- Technical expertise
- Time/labor resources
- Industry connections
Delta Junction, AK

Partner: Snowed Inn RV and Trailer Court
Project team: AWWA Alaska Section

ADEC issued notice of violation for sanitary survey deficiencies. Fieldwork to evaluate deficiencies and recommend permitting changes.

Regulatory Concurrence Granted by ADEC
Skamania, WA

Partner: Elementary School #184053002
Project team: AWWA Pacific Northwest

Rural school of 75 students with lead contamination violations. Team reviewed historic data and provided design recommendations.

$200k for system upgrades received from State
Grover Hill

Partner: Great Lakes RCAP
Project team: AWWA Ohio Section

Identified waste water collection system repair and replacement alternatives and provided a cost analysis of evaluated options.

$900k USACE Funds Unlocked
COMMUNITY PROGRAMME

PROJECT PROCESS

Pre-CECorps

Community Engineering Corps Identifies a Challenge

Community Engineering Corps Identifies Volunteer Team

Post-CECorps

Community Implements

Community has increased technical capacity, depending on project, to:

- Apply for funding
- Consider recommended engineering solutions
- Implement designs
- Meet regulations

AND MORE!

TO APPLY → communityengineeringcorps.org/communities/
Why go through us?

- We provide participants coverage under our liability umbrella, allowing us to act like a consulting firm and giving our engineers and volunteers protection to provide assistance.

- We “set up the pins” so volunteers can “knock them down”, a better opportunity than going out to do this alone.

- Grow your career! Opens new business opportunities with regulators, partners, or for engineering firms. We engage volunteers as a “capstone” on their career, a “gateway” to a new career, or even as senior design projects to engage and educate students and student members through projects rather than just networking.

- **Just jump right in!** No permissions, no long-term committee engagement, no Section approval process. Find a team, a project, and get to work.
Projects Categories

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 Agriculture
 rainwater harvesting, irrigation, runoff control, hydroculture, cold chain.

 Civil Works
 roads, bridges, rails to trails projects.

 Energy
 solar, alternative energy sources, energy audits.

 Information Systems
 GIS mapping, project management systems, construction management systems.

 Mechanical
 automating systems, HVAC, lighting.

 Structural
 roofing, buildings (community centers, sustainable building, etc).

 Waste Management
 solid waste, recycling.

 Water Supply & Sanitation
 drinking water, water resources, wastewater, compliance issues, leach fields, alternative toilets.

 Other
 mobile food banks, show us your innovative spirit and pitch a unique project!
Get involved

Ok, I’ve got volunteers that are educated and want to get going, what’s next?

Create an opportunity! (Start with WIMBY, contact CECorp engineer)

Find an open opportunity! (Already vetted by CECorps)

Have the community or utility apply here directly, don’t do it on their behalf.

Volunteer page is being re-written to apply for interest on a project
Thanks!

Get in touch to:

• Orient potential member volunteers
• Engage with AWWA students at a University
  • Develop a project for your Section
  • Schedule a workshop or training event
• Speak at a conference, set up exhibit or booth
• Donate to our program (through Water Equation and Michelle Hektor)

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