

# ENGINEERING FOR CHANGE **IMPACT PROJECTS**

OVERVIEW 2023-24



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## ABOUT E4C

A GLOBAL ECOSYSTEM

Founded in 2009 by ASME and other leading engineering organizations, Engineering for Change (E4C) is a knowledge organization specialized in Engineering for Sustainable Development with a global community of over 1 million that believe engineering can change the world. E4C's mission is to prepare, educate and activate the international engineering workforce to improve the quality of life of people and the planet. We do this by providing resources and platforms that accelerate the development of impactful solutions and ensure public health and safety around the globe.

To learn more visit,  
[www.engineeringforchange.org](http://www.engineeringforchange.org)

# WHY IMPACT PROJECTS?

Many organizations face innovation capacity limitations as they begin, grow, and expand into new arenas. Capacity and skills gaps impede the progress and success of potentially transformative initiatives. At E4C, we help to bridge these gaps. We source and manage technical talent to complete identified projects, while simultaneously giving partners the chance to help shape the future technical workforce for sustainable development.

## Integration with the E4C Fellowship

Our Impact Projects are integrated with the E4C Fellowship Program. Through our bespoke recruitment process, we source accomplished, capable and motivated Fellows with skills and passion aligned to your needs and gaps. Our comprehensive professional development program enhances Fellow's existing experience through a practically designed learning program. Weekly virtual learning modules, coupled with software training, group and individual mentoring, provide Fellows with the support needed to apply their technical training to your project.

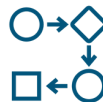
Through these programs, E4C helps to advance the sustainability objectives of impact-driven organizations by identifying high potential early career engineers in three work streams:



**DESIGN FOR  
GOOD**



**IMPACT  
RESEARCH**



**ADVANCING  
WORKFLOWS**

# WHAT ARE SOME EXAMPLES?

## DESIGN FOR GOOD

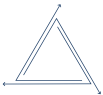
This stream includes product design, development, and deployment. Types of projects may range from early-stage needs assessments, to user validation testing to implementation strategy development.



**Case Study: Aerial release of seeds to support ecosystem restoration.** Fellow Julian Krüger (Germany) developed a mechanical release system for seeds, which fed into a high-level plan to implement drones to restore different mangrove species.

## IMPACT RESEARCH

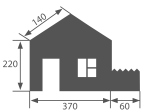
Fellows investigate critical sustainability questions combining engineering and cultural insights. Types of projects may include interview-based studies, and market or large dataset analysis.



**Case Study: Water-energy-food innovations in the Middle East.** Fellow Khaoula Trigui (Tunisia) completed a landscape analysis and interview-based study resulting in a comprehensive report of opportunities and challenges in the region.

## ADVANCING WORKFLOWS

Fellows improve your organization's efficiency through systems or processes. Types of projects may include template development, software integration, and process strategy development.



**Case Study: Improved automation of BIM workflows for retrofitting project.** Fellow Valentina Ospina (Colombia) integrated building information modeling (BIM) capabilities into the organization's workflow for retrofitting projects to improve earthquake resilience in Colombia.

# WHY COLLABORATE WITH E4C?

## GLOBAL REACH

E4C's audience (over 55,000 members for our website alone) is a differentiating factor for the Fellowship and Impact Projects. We leverage a global pool of high-quality early career engineers, architects, and scientists passionate about social impact, with 1800+ interested candidates from 80+ countries in 2022. Through our collaboration, you will be equipping the workforce of the future with valuable practical experience to support the United Nation's Sustainable Development Goals.



## INTERNATIONAL REPUTATION

E4C has 10+ years of experience offering targeted technical expertise to advance partners' impact goals. We have completed more than 140 Impact Projects with a wide range of partners from academia, non-profits, multilaterals, private sector and government agencies.

## DIGITAL PRESENCE

Our online and social media presence provides us with a far-reaching platform that we use to amplify and promote our partnership around the joint Impact Project. We publish an annual report, summarizing the Impact Projects at the end of the year as another medium of promoting our partnership. This provides a powerful co-branding opportunity, aligning your brand with ours, and other industry-leading organizations.

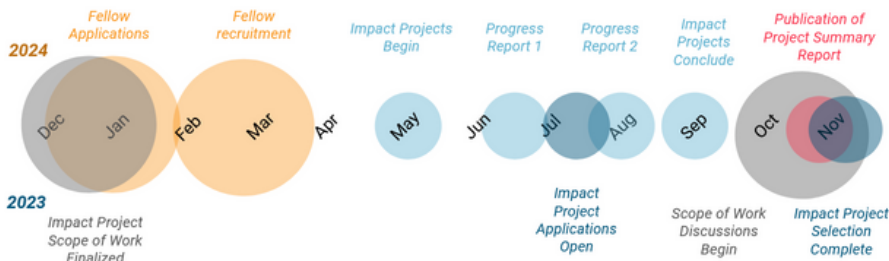


## PROGRAM MANAGEMENT SUPPORT

E4C makes receiving a Fellow's support easy for any potential partner. We handle the logistics of recruitment, contracts, Non-Disclosure Agreements, training, and a performance-based payment structure. We also support the management of the Fellow and provide technical expertise drawn from our 10+ years of experience on frameworks and best practices. When unique needs arise, we tap into our broad network (1000+) of accomplished experts across the engineering and social impact sector for added support.

# WHAT TO EXPECT?

## TIMELINE 2023-24



## YOUR ENGAGEMENT WITH E4C

Each partner organization is expected to:

### Before the program

- Propose a project in one of the Impact Project categories.
- Engage in the project scoping process with E4C, including project definition, key skills and support required, and final deliverables. Share logo for use in promotion and recruiting.
- Review top candidate profiles and confirm Fellow to engage

### During the program

- Have the Point of Contact meet with the Fellow as defined at the beginning of the project and a minimum of biweekly thereafter.
- Share any relevant photos to support E4C promotion of the project.
- Have your wider team attend two Progress Report meetings for the Fellow to report out on progress relative to the scope of work.
- Complete two (2) E4C surveys to understand the outcomes and performance of your Fellow during the program.
- Review and approve a summary report of your project for E4C's Annual Impact Project Report and our research page.

### After the completion of the program

- Complete a post-Fellowship survey
- Review and approve reports for publication on E4C or beyond.

## LET'S GET TO WORK

E4C provides talent matching, development, and management to social impact-oriented partners. Engage with us to build the technical capacity that will enable your portfolio's success now and in the future.



### SUBMIT YOUR PROJECT IDEA:

[WWW.ENGINEERINGFORCHANGE.ORG/REQUEST-IMPACT-PROJECT/](http://WWW.ENGINEERINGFORCHANGE.ORG/REQUEST-IMPACT-PROJECT/)

### LEARN MORE ABOUT US

[WWW.ENGINEERINGFORCHANGE.ORG/IMPACT-PROJECTS/](http://WWW.ENGINEERINGFORCHANGE.ORG/IMPACT-PROJECTS/)

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