



## **Engineering for One Planet Step-by-Step Climate Education Teaching Guide Collaboration Opportunity**

The Lemelson Foundation is inviting select organizations to collaborate on the review and release of a new teaching guide aligned to the **Engineering for One Planet Framework of Essential Sustainability Learning Outcomes**. This document outlines the background and details of this by-invitation opportunity. Please reach out to Cindy Cooper ([cindyc@lemelson.org](mailto:cindyc@lemelson.org)) if you have any questions.

### **About EOP and the EOP Framework**

Engineering for One Planet (EOP), launched by The Lemelson Foundation, a private family foundation, and its grantee VentureWell in 2020, advances rapid innovation in engineering education, embedding sustainability and climate literacy to prepare engineers capable of solving today's challenges without compromising tomorrow.

**Vision:** The vision of the EOP initiative is that sustainability (including social, environmental, and economic considerations) will be a fundamental principle in the practice of all engineering activities, from design to end of life.

**Goal:** To transform engineering education so all engineers are equipped with foundational skills, knowledge, and understanding to protect and improve our planet and our lives.



**The EOP Framework** is the foundational tool of the EOP initiative. Developed to help faculty integrate foundational sustainability content into their courses, the open access EOP Framework offers a vetted menu of learning outcomes for integrating economic, social, and environmental sustainability and related professional skills, such as teamwork, communications, and critical thinking, into any engineering discipline.

In consultation with faculty, The Lemelson Foundation worked independently of ABET to map each learning outcome in the EOP Framework to required ABET student outcomes and to highlight alignment between learning outcomes and the United Nations Sustainable Development Goal 12 (i.e., Responsible Consumption and Production). Users can copy or modify learning outcomes as they wish.



## Purpose and format of EOP teaching guides

### Purpose

Developed with educators for educators, EOP teaching guides reference learning outcomes from the EOP Framework and provide educators with step-by-step teaching instructions and links to free materials and videos for teaching those learning outcomes. There are several [EOP teaching guides](#) covering different topics or developed for a specific audience or purpose.

### New: EOP Step-by-Step Climate Education Teaching Guide

To meet the demand from engineering educators for a climate-focused EOP teaching tool, the new *EOP Step-by-Step Climate Education Teaching Guide* will include learning outcomes from the EOP Framework that relate directly to climate impacts under each of the nine topic areas in the EOP Framework (i.e., Systems Thinking, Environmental Literacy, Responsible Business and Economy, Social Responsibility, Environmental Impact Assessment, Materials Selection, Design, Critical Thinking, Communication and Teamwork).

### Format

All EOP teaching guides are in PDF format and available for free. Designed for electronic use, they include hyperlinks to freely available online materials. All EOP resources are licensed under Creative Commons for easy adoption by anyone in any setting. Click [here](#) for an example of an EOP teaching guide.

EOP's teaching tools and grant programs support rapid, multidisciplinary curricular innovation for a more sustainable future. Faculty have used them to update or introduce more than 600 courses, including hundreds of core, required engineering courses.



## **Invitation to collaborate on reviewing and disseminating new climate-focused teaching guide**

Based on shared strategic priorities and aligned audiences, we are inviting select engineering associations, organizations, and networks to collaborate on publishing and disseminating this new climate-focused teaching guide with us. It is our intention that this coalition will gain value from both working together and equipping each other's networks with a tool that can be used by educators, corporate trainers, and individuals interested in learning foundational climate skills and science in the context of the engineering profession.

### **Basics of collaboration**

This collaboration is an opportunity to elevate our collective agenda and visibility to different networks with similar interests. There is no financial contribution expected from any collaborator. The Lemelson Foundation is covering the costs of drafting and designing the guide.

Collaborators contribute to the success of the project through:

1. Providing confirmation of your interest in collaborating and the name and email address of the organization leader responsible for signing the collaboration agreement to [cindyc@lemelson.org](mailto:cindyc@lemelson.org) by November 3, 2025
2. Providing organizational logo and overview to EOP staff by November 14.
3. Approving logo usage and organizational overview design by December 19.
4. Identifying appropriate audiences and dissemination mechanisms within their networks.
5. Disseminating the guide to their audiences in 2026 (see details below).
6. Responding to messages or requests related to this project in a timely manner.

### **Digital dissemination expectations**

The draft EOP Step-by-Step Climate Education Teaching Guide will be available for your review December 12 - 19, 2025. The final guide is expected to be available for digital dissemination by February 1, 2026.



- Each collaborator will share the guide with their networks at least twice in 2026. Recommended dates:
  - March 4, UNESCO World Engineering Day 2026
  - April 22, Earth Day 2026
- The EOP Climate Action Teaching Guide will be available for download on the Engineering for One Planet website.
- Collaborators may also share the guide on their websites, but not behind a paywall.
- Collaborators will be provided with a social media kit including a blurb and image. Collaborators may customize messaging to fit their own audiences and key themes.
- Collaborators may also repost/amplify posts made on the Engineering for One Planet LinkedIn page.
- Collaborators may post and share more frequently and through other means as they choose.

## Next steps

1. Provide confirmation of your interest in collaborating and the name and email address of the organization leader responsible for signing the collaboration agreement to [cindyc@lemelson.org](mailto:cindyc@lemelson.org) by November 3, 2025
2. Sign the collaboration agreement and submit your high-resolution logo to [cindyc@lemelson.org](mailto:cindyc@lemelson.org) by November 14, 2025
3. Review draft guide to approve logo usage and organizational overview by email between December 12 - 19, 2025
4. Disseminate final guide via social media in 2026. We'd love to flood LinkedIn with posts about the guide on UNESCO World Engineering Day, March 4, 2026.

Please contact [cindyc@lemelson.org](mailto:cindyc@lemelson.org) if you have suggestions.