

Opportunity Title: Building Energy Modeling using Hybrid Methodologies

Opportunity Reference Code: NREL-FACES-2025-0017

Organization National Renewable Energy Laboratory (NREL)

Reference Code NREL-FACES-2025-0017

Application Deadline 3/28/2025 11:59:00 PM Eastern Time Zone

Description The goal of the FACES program is to empower science technology, engineering, and math (STEM) faculty from emerging research institutions (including associates, baccalaureate, masters, and R2 doctoral granting institutions) by equipping them with enhanced research skills and expertise in clean energy science.

FACES is a 10-week summer program that provides faculty with the opportunity to collaborate with NREL researchers and develop scalable education modules on topics like community engagement, human behavior, energy and environmental science, and artificial intelligence. The first eight weeks will be spent at NREL in an immersive environment with an NREL staff researcher/mentor. The final two weeks will be conducted virtually to prepare a final deliverable. A Customized Learning Solution (CLS) will be the culminating milestone of the research experience with the intent for your hosting NREL mentor to travel to your institution and deliver the CLS to your class.

Leveraging existing building energy modeling tools developed and maintained by NREL, such as EnergyPlus and ResStock, this project aims to collaborate with educators, researchers, and building SMEs to expand the user base of these simulation tools and enhance their accuracy through applications in U.S. neighborhoods. Additionally, the project seeks to utilize these tools to assess building energy resilience across various U.S. climates, explore opportunities for reducing utility costs for all occupants, and evaluate different supply source mix scenarios.

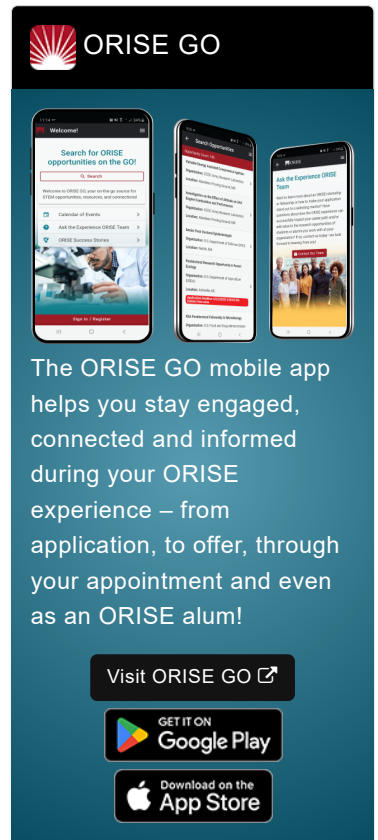
Participation requires a commitment to the full ten-week program (June 2 through August 8, 2025).

Selected faculty participants will receive a weekly stipend of \$1,800 for the ten-week program (paid biweekly). Selected faculty may also be eligible to receive a \$500 inbound/outbound travel reimbursement.

Deadline: March 28, 2025

A complete application includes:

- All required fields in both the Zintellect profile and Zintellect application form, including Current Curriculum Vitae (include list of any papers, presentations, or publications)
- Two References submitted through Zintellect
- Customized learning solution abstract (150 words) showing how the proposed project will align with and be integrated into your current course load. References to one of the four FACES pillars preferred: Human Behavior (1), Community Engagement (2), Environmental



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Science (3), Energy Transition and Artificial Intelligence (4). (Learning solution only requires alignment with a single course)

- Personal statement
 - Provide a personal statement indicating your interest in renewable energy research, desire to bring current research into the classroom, and any other relevant information you feel would help inform our decision.
- Submitted documents must have all personal identification numbers, and/or dates of birth removed (blacked out, blackened out, made illegible, etc.) prior to uploading into the application system.

The selected applicants will be responsible for providing the following deliverables as part of their appointment:

- Pre-Survey
- Project Summary Abstract and Presentation to the research group
- Customized Learning Solution (CLS)
- Post-Survey

The deliverables that selected applicants provide will need to include information on the eight weeks at NREL and the final two virtual weeks spent preparing for the final deliverable focusing on the Customized Learning Solution (CLS).






Qualifications You must meet the following to be eligible to apply:

- Must be a United States Citizen or Lawful Permanent Resident at the time of applying.
- Be a current (2024-25 academic year) faculty member from an eligible non-R1 institution including eligible Community Colleges, as categorized by the [Carnegie Classification](#).
- Be recognized as full-time faculty by your institution, not holding "adjunct" or "visiting" designations.

Additional eligibility factors:









- Have coverage under a health insurance plan before arriving at the appointment site and maintain coverage during the appointment.
- Have interest in a specific NREL [area of research](#).

Point of Contact [Abby](#)

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| Eligibility | <ul style="list-style-type: none">• Citizenship: LPR or U.S. Citizen |
| Requirements | <ul style="list-style-type: none">• Degree: Associate's Degree, Bachelor's Degree, Master's Degree, or Doctoral Degree.• Discipline(s):<ul style="list-style-type: none">◦ Business (11 )◦ Chemistry and Materials Sciences (12 )◦ Communications and Graphics Design (6 )◦ Computer, Information, and Data Sciences (17 )◦ Earth and Geosciences (21 ) |

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- **Engineering** ([27](#) )
- **Environmental and Marine Sciences** ([14](#) )
- **Life Health and Medical Sciences** ([51](#) )
- **Mathematics and Statistics** ([11](#) )
- **Other Non-Science & Engineering** ([13](#) )
- **Physics** ([16](#) )
- **Science & Engineering-related** ([2](#) )
- **Social and Behavioral Sciences** ([30](#) )
- **Veteran Status:** Veterans Preference, degree received within the last 120 month(s).

Affirmation I am a U.S. citizen or Lawful Permanent Resident and am currently a faculty member in good standing from an eligible non-R1 institution including eligible Community Colleges, as categorized by the [Carnegie Classification](#) in the United States.