

[View the web version of this message](#)

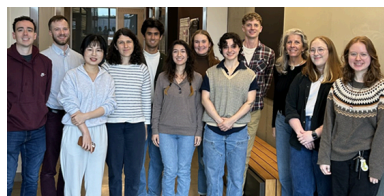


FALL 2024



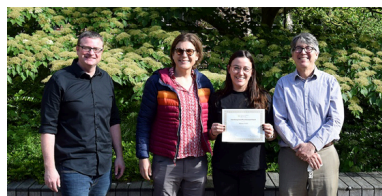
Welcome, new Graduate Fellows!

CEI selected 41 clean energy doctoral students for its 2024-25 Graduate Fellowship. Fellows conduct cutting-edge research that advances the adoption of scalable and equitable clean energy solutions, while also engaging in professional development and community engagement activities.



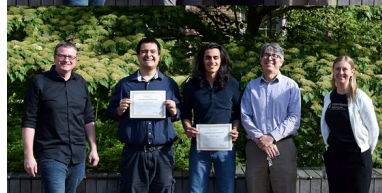
'24-25 Science Policy & Tech Due Diligence Analysts

As part of the Torrance Advanced Experience Program (AXP), 14 doctoral students are working with the Washington State Academy of Sciences as science policy analysts, and 6 doctoral students are working as tech due diligence analysts with E8 angel investors.



Student Achievement Awardees

Dr. Maria Politi received the Clean Energy Scientific Achievement Award and George Fennell and Antonio Vazquez won Outreach & Service Awards.





[Collaborative Seed Grants boost AI data centers, EV charging infrastructure](#)

Sajjad Moazeni and Ang Li (Electrical & Computer Engineering) will develop optical switches for more efficient AI data centers. Lingzi Wu, Hyun Woo (Chris) Lee, and Dylan Stevenson (Built Environments) will partner with local tribes to create a mapping tool for electric vehicle charging infrastructure.



[New open-access battery lab](#)

Come summer 2025, UW researchers and industry users will be able to produce batches of pouch cells—a versatile battery format for electric transportation and beyond—to allow for device engineering and testing at commercially-relevant scales. CEI shared lab details at an event with Governor Inslee, climate tech leaders, and clean energy researchers on October 11 at the Washington Clean Energy Testbeds. Read the [press release](#) and related news stories in [The Seattle Times](#), [GeekWire](#), [Puget Sound Business Journal](#), and [KNKX](#).

RESEARCH HIGHLIGHTS

[High-Viscosity Phase Inversion Separators for Freestanding and Direct-on-Electrode Manufacturing in Lithium-Ion Batteries](#)

ACS Applied Materials & Interfaces

[In Situ Synthesis of Br-Rich CsPbBr₃ Nanoplatelets: Enhanced Stability and High PLQY for Wide Color Gamut Displays](#)

Advanced Functional Materials

[Leveraging ordered voids in microporous perovskites for intercalation and post-synthetic modification](#)

Chemical Science

[Adoption Inequalities and Causal Relationship between Residential Electric Vehicle Chargers and Heat Pumps](#)

Journal of Construction Engineering and Management

[Assessing cathode–electrolyte interphases in batteries](#)

Nature Energy

[Improved reverse bias stability in p–i–n perovskite solar cells with optimized hole transport materials and less reactive electrodes](#)

Nature Energy

[Engineering approach can improve stability of perovskite solar cells under reverse bias conditions](#)

TechXplore

[Dynamically tunable moiré exciton Rydberg states in a monolayer semiconductor on twisted bilayer graphene](#)

Nature Materials

[Future optoelectronics unlocked by ‘doping’ strategy](#)

Nature News & Views

[Strain tuning of vestigial three-state Potts nematicity in a correlated antiferromagnet](#)

Nature Physics

[Recyclable vitrimer-based printed circuit boards for sustainable electronics](#)

Nature Sustainability

[New circuit boards can be repeatedly recycled](#)

UW News

[Moiré Exchange Effect in Twisted WSe₂/WS₂ Heterobilayer](#)

Physical Review Letters

[DeltaLCA: Comparative Life-Cycle Assessment for Electronics Design](#)

Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies

[Managing grid impacts from increased electric vehicle adoption in African cities](#)

Scientific Reports

[Quantifying clean energy justice: Impact of Solarize programs on rooftop solar disparities in the Pacific Northwest](#)

Sustainable Cities and Society

EVENTS

[November 21, 4 - 5 pm CEI Seminar: Jie Xiao - University of Washington](#)

[December 5, 4 - 5 pm CEI Seminar: Seth Darling – Argonne National Laboratory](#)

[UW HOME](#)

[CLEAN ENERGY INSTITUTE](#)



[CONTACT US](#) | [PRIVACY](#) | [TERMS](#)

© 2024 Clean Energy Institute, 3946 W Stevens Way NE, Box 351653, Seattle, WA

[Unsubscribe or change your email preferences](#)