

LIGHT THE WAY

THE CAMPAIGN FOR BERKELEY



ENERGY, CLIMATE, AND ENVIRONMENT

Global environmental change remains one of the fundamental challenges of our time. It is adversely impacting both natural systems and human communities, and currently outpacing our efforts at mitigation and adaptation. Marginalized populations, including people of color and those living in poverty, are especially vulnerable. Both innovation and investment are integral to addressing this global crisis, and Berkeley is well-positioned to lead in education and solutions-oriented research.

As the window of opportunity for lasting climate solutions is narrowing, Berkeley is well-positioned to lead in solutions-oriented research and education to address this global crisis, through three key areas for action:

- **Advance Toward Carbon-Neutral and Beyond —**
Berkeley is home to cutting-edge discoveries that span energy conservation and storage, building efficiency, renewable energy sources, and new materials and methods for carbon capture and sequestration.
- **Protect and Promote Ecosystems and Food Systems —**
By building on our exceptional strengths in environmental and social sciences, we can guide the

future of biodiversity management in a changing climate, advance forest management to enhance carbon storage while reducing wildfire threats, and promote climate-smart and equitable food systems in California and beyond.

- **Build Healthy and Resilient Communities —**
Our faculty are pursuing solutions for tomorrow's infrastructure: pioneering embedded sensing at the city scale; accelerating new approaches to transit and mobility; testing ways to integrate green infrastructure into urban settings; and leading the creation of neighborhoods that will efficiently generate, store, and employ their own renewable energy.

BERKELEY'S DISTINCTIVE STRENGTHS

Berkeley's core strengths — from basic discovery to applied science and engineering, from education to impact — are focused on three areas of excellence that guide all of our work:

- **Climate Equity and Environmental Justice** — Berkeley is unique among preeminent research institutions for its integration of equity and inclusion into our work on the energy transition, its scholarship into impacts on vulnerable populations, and its engagement with local communities in development and implementation of solutions.
- **End-to-End Solutions** — Exceptional for its excellence across the requisite disciplines – from basic science to policy, economics, and business, Berkeley's collaborative culture leads the way on the path to zero emissions for a healthy and resilient future.
- **Data Sciences for the Environment** — We are bridging academic fields and creating collaboration platforms for students, post-docs, and faculty to harness the power of data science, machine learning, and AI. This work can foster more accurate climate predictions, enable better decision-making for decarbonization of supply chains and markets, and allow for more intelligent and efficient allocation of renewable energy.



PHOTO: WILLIAM BRINKERHOFF



UNIVERSITY DEVELOPMENT AND ALUMNI RELATIONS

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