

Executive Director, BIDMaP: AI Science for Climate
Research and Impact (0379U) Job 61395 - The Bakar
Institute of Digital Materials for the Planet (BIDMaP)
University of California, Berkeley

Direct Link: <https://www.AcademicKeys.com/r?job=234376>

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Posted Apr. 9, 2024, set to expire Jun. 30, 2024.

Job Title Executive Director, BIDMaP: AI Science for Climate
Research and Impact (0379U) Job 61395 - The Bakar
Institute of Digital Materials for the Planet (BIDMaP)

Department

Institution University of California, Berkeley
Berkeley, California

Date Posted Apr. 9, 2024

Application Deadline Open until filled

Position Start Date Available immediately

Job Categories Director/Manager

Academic Field(s) Research

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Job Description

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**Executive Director, BIDMaP: AI Science for Climate Research and Impact (0379U) Job 61395 -
The Bakar Institute of Digital Materials for the Planet (BIDMaP)**

About Berkeley

At the University of California, Berkeley, we are committed to creating a community that fosters equity of experience and opportunity, and ensures that students, faculty, and staff of all backgrounds feel safe, welcome and included. Our culture of openness, freedom and belonging make it a special place for students, faculty and staff.

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The University of California, Berkeley, is one of the world's leading institutions of higher education, distinguished by its combination of internationally recognized academic and research excellence; the transformative opportunity it provides to a large and diverse student body; its public mission and commitment to equity and social justice; and its roots in the California experience, animated by such values as innovation, questioning the status quo, and respect for the environment and nature. Since its founding in 1868, Berkeley has fueled a perpetual renaissance, generating unparalleled intellectual, economic and social value in California, the United States and the world.

We are looking for equity-minded applicants who represent the full diversity of California and who demonstrate a sensitivity to and understanding of the diverse academic, socioeconomic, cultural, disability, gender identity, sexual orientation, and ethnic backgrounds present in our community. When you join the team at Berkeley, you can expect to be part of an inclusive, innovative and equity-focused community that approaches higher education as a matter of social justice that requires broad collaboration among faculty, staff, students and community partners. In deciding whether to apply for a position at Berkeley, you are strongly encouraged to consider whether your values align with our [Guiding Values and Principles](#), our [Principles of Community](#), and [our Strategic Plan](#).

At UC Berkeley, we believe that learning is a fundamental part of working, and our goal is for everyone on the Berkeley campus to feel supported and equipped to realize their full potential. We actively support this by providing all of our staff employees with at least 80 hours (10 days) of paid time per year to engage in professional development activities. To find out more about how you can grow your career at UC Berkeley, visit grow.berkeley.edu.

Departmental Overview

The Bakar Institute of Digital Materials for the Planet (BIDMaP) at the University of California, Berkeley brings together top machine learning and chemistry researchers to develop groundbreaking technologies to unlock new solutions to climate change. World-leading chemists, computer scientists, statisticians, and a breadth of other interdisciplinary collaborators from across the UC Berkeley campus, our sister campuses, and the global academic community, BIDMaP is leading cutting-edge research and forging partnerships to address the climate crisis.

The Institute will focus on developing a new field of machine learning for experimental chemistry. BIDMaP will develop and leverage AI techniques to accelerate climate change technologies and their deployment. BIDMaP will focus on trapping and harnessing small molecules we rely on but cannot currently control at scale. BIDMaP will rely on the intersection of multiple fields of study, with interaction being a key component, to develop new types of algorithms and design platforms to optimize

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discovery, development and the deployment of climate change intervention technologies, initially focusing on new materials. BIDMaP aims to help scientists find more correct answers faster and provide a roadmap for incorporating artificial intelligence (AI) into other experimental fields like physics. BIDMaP is a financially self-sustaining research institute within Computing, Data Science and Society with an ambitious vision.

BIDMaP is seeking its inaugural Executive Director. Come join this dynamic, cross-disciplinary team, to make our scientific vision a reality, creating an enormous lever for societies around the world to address climate change. BIDMAP brings together the founder of an important new field in chemistry and the best artificial intelligence and machine learning group in the world to imagine and create a better future. BIDMaP is an international hub for discovery and education in climate technologies, with emphasis on new materials, reticular chemistry, and AI for the natural sciences. It will capitalize on Berkeley's first-rate faculty, new faculty hires, and suite of visiting programs for cross disciplinary interaction aimed at convening the world's best talent, to create solutions that help solve society's most pressing and vexing challenges.

Application Review Date

The First Review Date for this job is: 11/20/23 - Open Until Filled

Responsibilities

The BIDMaP Executive Director independently oversees a moderately sized, fast-growing, cutting-edge interdisciplinary academic research program. Performs long- and short-term planning for the Institute, including funding projections and financial sustainability. Designs and develops major programmatic strategies and procedures; identifies and pursues funding opportunities and revenue streams; produces reports and project and program reviews, and represents the program to internal UCB units and outside organizations. Leads all administrative operations including financial management, HR, and facilities, as well as programmatic activities including regular seminars, annual off-site events, and a graduate and postdoctoral fellowship programming (recruitment, community-building, collaboration). Manages a growing academic personnel portfolio. Develops and ensures proper program visibility online and in print media.

The incumbent implements programs including regular seminars, off-site events, and fellowships. Develops and ensures proper program visibility online and in print media. Engages with companies and nonprofit organizations to fund programs and promote paths to technology transfer and

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commercialization. Raises the visibility of BIDMaP to constituents including academia, government, industry and the public with robust education and outreach programs. Manages interactions with supporting units on campus and partner institutes (e.g. tech transfer, deans and department chairs, communications, and development). Identifies opportunities and develops workshops and conferences for national and international audiences with participants from academia, industry and government.

Reporting to the Faculty Director, the key responsibilities of the Executive Director are:

60%

Strategic direction: As an integral member of the leadership team, develop, implement and manage the short and long-term strategic plan for BIDMaP programs and operations. Create annual strategies and action items; implement steps toward long-term objectives. Advise BIDMaP faculty leadership on progress.

Operational leadership and management: Develop business models, policies, procedures and systems as needed to ensure efficient administrative and operations support for all members of BIDMaP.

Scientific and programmatic leadership: Oversee, manage or coordinate (directly or indirectly depending on area and need) activities in intellectual property, information technology, communications, development, facilities and human resources, financial management, and laboratory support; manage interactions and ensure oversight of activities at supporting units on campus and partner institutes. Participate or oversee proposal solicitation for external funding for programs and projects, as needed.

Foster innovative, interdisciplinary research collaborations as a critical member of the leadership team; assess needs and establish necessary research capability and capacity; provide guidance to faculty regarding funding, new venture development and other resource support; pursue opportunities for additional funding; track BIDMaP activities and milestones. Provide high-level support to Institute leadership, serving as a strategic thought partner and operational executive. For example, provide briefings to ensure objectives for meetings are met and on track with strategic goals; manage follow up.

20%

Fundraising, communications and outreach: Collaborate with development professionals on campus to raise ongoing support for the Institute. Take a leadership role in stewarding donors, in collaboration with University Development and Alumni Relations (UDAR), including detailed reporting on spending, activities, accomplishments, related publications, media attention and other relevant information for

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donors. Publicize relevant competitive research opportunities to BIDMaP researchers and assist with team formation and project management for major collaborative funding opportunities.

15%

Translation and Commercialization: Oversee partnerships with on-campus resources such as Bakar Labs and the BeLIEF Fund, and external resources to support faculty in taking steps toward translating the technology. Collaborate with faculty and campus leadership to incorporate commercialization-themed programming for the BIDMaP research community. Develop partnerships with on- and off-campus organizations that will further the goals of deploying and scaling BIDMaP discoveries. Oversee activities relating to intellectual property reporting and patenting to ensure discoveries are protected.

5%

Participates in workshops, trainings, and other professional development opportunities.

Required Qualifications

- Significant number of years of experience leading a scientific or research-oriented organization or comparable organization and experience working in a dynamic and growing organization (e.g. institute, initiative, multi-laboratory collaboration, academic department, biotechnology, health technology, or bioengineering company).
- Strong project management and collaborative leadership skills; the ability to move projects with diverse stakeholders to timely completion while maintaining an understanding of long-term goals.
- Ability to articulate an organization's story in a compelling way to internal and external constituents; demonstrated ability in translating complex scientific topics to diverse audiences with varying levels of knowledge.
- Expert skills in creativity and organizational management to build and oversee a program within a complex organization, including administrative, budgetary, and human resources responsibilities and financial management principles and practices.
- Expert ability to manage personnel, leading and motivating cross-functional teams, including administrative, faculty, and scientific staff.
- Expert ability to work collaboratively with dynamic and diverse group of faculty, staff and students. Advanced communication skills.
- Proven record of advancing diversity, equity, and inclusion within an organization.
- Terminal degree in related area and/or equivalent experience training.

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Preferred Qualifications

- Demonstrated fundraising and/or grant writing experience.
- Advanced negotiation skills.
- Demonstrated expertise building collaborations between academia, industry and / or governmental agencies.

Salary & Benefits

For information on the comprehensive benefits package offered by the University, please visit the University of California's [Compensation & Benefits](#) website.

Under California law, the University of California, Berkeley is required to provide a reasonable estimate of the compensation range for this role and should not offer a salary outside of the range posted in this job announcement. This range takes into account the wide range of factors that are considered in making compensation decisions including but not limited to experience, skills, knowledge, abilities, education, licensure and certifications, analysis of internal equity, and other business and organizational needs. It is not typical for an individual to be offered a salary at or near the top of the range for a position. Salary offers are determined based on final candidate qualifications and experience.

The budgeted salary or hourly range that the University reasonably expects to pay for this position is \$117,000 - 226,000.

Conviction History Background

This is a designated position requiring fingerprinting and a background check due to the nature of the job responsibilities. Berkeley does hire people with conviction histories and reviews information received in the context of the job responsibilities. The University reserves the right to make employment contingent upon successful completion of the background check.

Equal Employment Opportunity

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual



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orientation, gender identity, national origin, disability, or protected veteran status. For more information about your rights as an applicant, please see the [U.S. Equal Employment Opportunity Commission](#) poster.

For the complete University of California nondiscrimination and affirmative action policy, please see the University of California [Discrimination, Harassment, and Affirmative Action in the Workplace](#) policy.

To apply, visit

https://careerspub.universityofcalifornia.edu/psp/ucb/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_APP_SCH

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

N/A

University of California, Berkeley

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