

Advanced AI Research Engineer (6257U), Haas School of
Business - 76645
University of California, Berkeley

Direct Link: <https://www.AcademicKeys.com/r?job=254116>

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Posted Mar. 6, 2025, set to expire Jul. 1, 2025

Job Title	Advanced AI Research Engineer (6257U), Haas School of Business - 76645
Department	
Institution	University of California, Berkeley Berkeley, California
Date Posted	Mar. 6, 2025
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Research Scientist/Associate Professional Staff
Academic Field(s)	Computer Science
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Job Description

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About Berkeley

At the University of California, Berkeley, we are dedicated to fostering a community where everyone feels welcome and can thrive. Our culture of openness, freedom and belonging make it a special place for students, faculty and staff.

As a world-leading institution, Berkeley is known for its academic and research excellence, public



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mission, diverse student body, and commitment to equity and social justice. Since our founding in 1868, we have driven innovation, creating global intellectual, economic and social value.

We are looking for applicants who reflect California's diversity and want to be part of an inclusive, equity-focused community that views education as a matter of social justice. Please consider whether your values align with our [Guiding Values and Principles](#), [Principles of Community](#), and [Strategic Plan](#).

At UC Berkeley, we believe that learning is a fundamental part of working, and provide space for [supportive colleague communities via numerous employee resource groups](#) (staff organizations). 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 full-time staff employees with at least 80 hours (10 days) of paid time per year to engage in professional development activities. Find out more about how you can [grow your career](#) at UC Berkeley.

Departmental Overview

UC Berkeley's Haas School of Business offers a unique opportunity to champion new ideas, collaborate across boundaries, and continually learn in a workplace committed to increasing diversity and creating a welcoming environment for all. Our distinctive culture is captured within our four [Defining Leadership Principles: Question the Status Quo, Confidence Without Attitude, Students Always, and Beyond Yourself](#). These principles distinguish Berkeley Haas as a unique environment, conducive to teamwork, collaboration, and career growth.

For more information about the Haas School of Business visit: <https://haas.berkeley.edu/about/>

This research engineer position will work in the Center for Healthcare Marketplace Innovation with a Professor working at the intersection of AI and clinical science. This project will expose you to a novel AI architecture developed to solve important clinical problems. We are seeking someone with an advanced understanding of the latest multimodal transformer architectures to help us develop new pipelines for specific clinical tasks.

The Haas School of Business embraces flexible working arrangements for its employees. Exact arrangements are determined in partnership with your supervisor to meet role responsibilities and department needs, and are subject to change.

Application Review Date

The First Review Date for this job is: 03/18/2025.

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Responsibilities

This position will engage in research projects utilizing data environments at UC Berkeley, UCSF, and other large healthcare provider networks. Downstream applications of our work can be found in predictive medicine, streamlined order-set placement, physician monitoring, and other key hospital workflows. This position is perfectly suited for engineers who want to build new tools in novel clinical data environments and deploy them to experts in the field. We will be publishing a series of papers over the coming year and members of the engineering team will take part in that process.

Provides consultation to research team to develop and evaluate instruments, tools and training. Designs, coordinates and conducts research studies of broad complexity and impact.

- Implements, optimizes, and maintains generative AI pipelines using advanced architectures like transformers, multimodal models, and retrieval-augmented generation (RAG/KG-RAG) systems.
- Utilizes tools like PyTorch and SQL for model development, training, and data querying, ensuring scalability and efficiency.

Compiles and interprets research data. Contributes to formulation and prioritization of interventions based on data.

- Creates robust ETL workflows using tools like Apache Airflow and big data technologies (e.g. Hadoop, Spark, Kafka) to preprocess and integrate diverse healthcare data sources.

Presents and interprets the results of research findings.

- Contributes to interpretations of data to be used in publishable research papers.

Provides team leadership in evaluating and refining investigation methods. Leads investigations / studies for local or external constituents.

Prepares reports, scientific publications and articles for publication.

- Works with faculty and staff to prepare articles based on clinical healthcare data analysis.

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Designs studies and data collection tools.

- Builds, deploys, and manages AI solutions on cloud platforms (Microsoft Azure, AWS) using services such as EC2, Sagemaker, and Redshift.
- Leverages MLOps tools and practices, including Infrastructure as Code (e.g., Terraform, CloudFormation), to streamline the deployment and monitoring of AI applications.

Provides technical assistance on data management and use of research data to analyze and interpret findings.

- Ensures data pipelines are reliable and optimized for AI-driven analysis and inference in a healthcare context.

Professional Learning and Growth

- Embraces the principle of being a "student always" by engaging in opportunities for training, workshops, seminars, continuing education pertinent to the position, or at the suggestion of the supervisor.
- Actively contributes to a team environment that fosters and promotes a culture of diversity, equity, inclusion, and belonging (DEIB) within the unit and at Haas.
- Engages in ongoing education to promote diversity, equity, inclusion & belonging by completing University sponsored certifications & training sessions (ie: MEP Workshop, Implicit Bias Certification, LinkedIn Learning workshops, and other workshops & seminars offered by the University or Haas, as they are made available) or by engaging in external seminars & resources related to DEIB.
- Exemplifies Haas' four Defining Leadership Principles: (1) Question the status quo; (2) Confidence without attitude; (3) Students always; and (4) Beyond yourself.

Required Qualifications

- In-depth knowledge of research function.
- Advanced skills associated with statistical analysis, database management and systems programming.
- Advanced skills in analysis and consultation.

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- Advanced ability to communicate complex information in a clear and concise manner both verbally and in writing.
- Excellent interpersonal skills, demonstrating a desire to promote diversity, equity, inclusion and belonging to establish and maintain positive & professional working relationships with colleagues, students and team members.
- Exemplifies Haas' four Defining Leadership Principles: (1) Question the status quo; (2) Confidence without attitude; (3) Students always; and (4) Beyond yourself.
- Demonstrates an understanding of and commitment to diversity, equity, inclusion, and belonging in a business, organization or public university setting.

Education/Training:

- Bachelor's degree in related area and/or equivalent experience/training.

Salary & Benefits

This is a 12-month, full-time (40 hours/week), contract appointment, eligible for UC benefits with the possibility of extension. This is an exempt position, which is paid monthly at an annual rate.

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 annual salary range that the University reasonably expects to pay for this position is \$88,900.00 - \$126,400.00.

How to Apply



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- To apply, please submit your resume and cover letter.

Other Information

- This is not a visa opportunity.

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.

Misconduct

SB 791 and AB 810 Misconduct Disclosure Requirement: As a condition of employment, the final candidate who accepts a conditional offer of employment will be required to disclose if they have been subject to any final administrative or judicial decisions within the last seven years determining that they committed any misconduct; received notice of any allegations or are currently the subject of any administrative or disciplinary proceedings involving misconduct; have left a position after receiving notice of allegations or while under investigation in an administrative or disciplinary proceeding involving misconduct; or have filed an appeal of a finding of misconduct with a previous employer.

"Misconduct" means any violation of the policies or laws governing conduct at the applicant's previous place of employment, including, but not limited to, violations of policies or laws prohibiting sexual harassment, sexual assault, or other forms of harassment, discrimination, dishonesty, or unethical conduct, as defined by the employer. For reference, below are UC's policies addressing some forms of misconduct:

[UC Sexual Violence and Sexual Harassment Policy](#)

[UC Anti-Discrimination Policy](#)

[Abusive Conduct in the Workplace](#)

Equal Employment Opportunity



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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 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.

The [University of California's Affirmative action policy](#).

The [University of California's Anti-Discrimination policy](#).

#TA-TH

To apply, visit

https://careerspub.universityofcalifornia.edu/psc/ucb/EMPLOYEE/HRMS/c/HRS_HRAM_FL.HRS_CG_S

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Contact Information

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

Contact

N/A



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