

Traffic Safety Data Analyst (6256U) - SafeTREC University of California, Berkeley

Direct Link: <https://www.AcademicKeys.com/r?job=260040>

Downloaded On: Jul. 21, 2025 10:44pm

Posted Jul. 21, 2025, set to expire Jun. 30, 2026

Job Title Traffic Safety Data Analyst (6256U) - SafeTREC
Department Institute of Transportation Studies
Institution University of California, Berkeley
Berkeley, California

Date Posted Jul. 21, 2025

Application Deadline Open until filled
Position Start Date Available immediately

Job Categories Professional Staff

Academic Field(s) Civil Engineering

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Job Description

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Traffic Safety Data Analyst (6256U) - SafeTREC

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 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.

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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

The Institute of Transportation Studies (ITS) develops leading-edge innovations influencing movement of people and goods and advancing sustainability, economic health, and quality of life at the University of California Berkeley.

Founded in 2000, the mission of the Safe Transportation Research and Education Center (SafeTREC) is to inform decision-making and empower communities to improve roadway safety for all. SafeTREC is part of the University of California, Berkeley, affiliated with the School of Public Health and the Institute of Transportation Studies, with additional partnerships with the Department of City and Regional Planning, Public Policy, and Transportation Engineering. Our research is carried out by researchers and faculty at UC Berkeley with assistance from post-doctoral scholars, research staff, and graduate student researchers.

This position serves in several roles to enhance the Center's research mission, including overseeing student workers in the collection of data and independently conducting data analytics projects and research as determined by the Directors, Principal Investigators, and Senior Researchers. The position requires knowledge of traffic safety concepts, analytical methods, and policy, as well as the ability to systematically monitor and maintain a large data collection effort.

This is a 1-year, 100% FTE contract position with the possibility of extension.

Application Review Date

The First Review Date for this job is: July 29, 2025 - Open Until Filled

Responsibilities

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35% - Perform data analysis support for tasks on applied research contracts on topics such as safety performance functions, pedestrian and bicyclist road safety management, safety impacts of heavy duty EV vehicles, and crash trend analysis. Tasks may include:

- processing and linking infrastructure, crash, and socioeconomic datasets using R or Python
- implementation of machine learning or clustering algorithms using R, Python, and/or VBA
- performing descriptive data analysis or modeling on crash and infrastructure data
- creating data visualizations, including charts and maps, to effectively communicate results

30% - Oversee data collection task for a project on calibrating California-specific safety performance functions from the Highway Safety Manual. Responsibilities include:

- working with technical lead to develop a systematic protocol for collection of the required data elements, including methods for data collection, a spreadsheet template for data entry, and a clear process for data collectors to follow
- recruiting and hiring a small team of undergraduate students assistants with support from senior researchers
- supervising data collection by students of road attribute data using data sources such as satellite and street view imagery
- ensuring quality and consistency of the data collected by implementation of a data validation process

15% - Implement innovative engineering and data science approaches to analyzing traffic safety research questions. This could include the application of natural language processing, machine learning, causal inference methodologies in traffic safety research applications.

10% - Prepare reports, presentation, manuscripts, and guidance documents, including a summary of the background literature, visualizations, findings, and contextualization of finds. Prepare progress reports for grants/contracts as needed.

5% - Participates in workshops, training, and other professional development opportunities.

5% - Other duties, as assigned.

Required Qualifications

- Bachelor's degree in related area and / or equivalent experience / training.
- Working knowledge of statistical and traffic safety analytic methods, including the knowledge of how to appropriately utilize multiple datasets together.

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- Working skills in statistical software such as R, Python, or related data analysis software necessary to examine and analyze datasets.
- Working knowledge of traffic safety and System System principles and methods to perform professional research tasks and implement project work and deliverables.
- Skills to communicate complex information in a clear and concise manner both verbally and in writing.
- Excellent organizational skills. Ability to work on multiple projects and tasks.

Preferred Qualifications

- Master's degree in civil engineering, transportation, city planning, public health or related area and / or equivalent experience / training.
- Working knowledge of geographic information systems techniques using Esri software, Python, and/or R.

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 \$34.77 to \$48.28 hourly. This is a 1-year, 100% FTE contract position eligible for benefits. This position is FLSA Non-exempt and paid biweekly.

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Other Information

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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 Disclosure

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

The University of California is an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, protected veteran status, or other protected status under state

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or federal law.

To apply, visit

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

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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