



Assistant Professor: Broad Area search in Data Science (HDSI)

The University of California, San Diego invites applications from outstanding candidates for an Assistant Professor (tenure-track) position in the Halicioğlu Data Science Institute (HDSI). HDSI is pursuing a strategy for advancing Data Science that builds upon its unique strengths in creating interdisciplinary research areas that span multiple disciplines and departments. Funded with a \$75M endowment, the mission of Halicioğlu Data Science Institute is to explore the scientific foundations for the new field of data science. These foundations include both the principles, methods, and tools that will enable us to understand the nature of digital data and also the intersections between the new field of Data Science and existing disciplines of human inquiry. HDSI is a new strategic academic institute tasked with hosting and coordinating data science research and education activities at the University of California, San Diego. We are currently looking for faculty appointments at all levels to build the core faculty of the Institute with the following search focus areas.

Candidates must submit their application to one of the following three (3) broad areas of this search:

Data Science Theoretical Foundations

We seek faculty applicants who apply their disciplinary skills to advance the theory and applications of data science. The scope includes the fundamental theory, techniques, methods, and algorithms underlying data science applications in various domains. The foundation's area draws heavily from traditional disciplines such as machine learning, statistics, optimization, signal processing, algorithms, and complexity. Accordingly, ideal candidates will have a doctorate in computer science, engineering, or mathematics/statistics and a record of research in foundations of data sciences.

Data Science Systems and Applications

We seek faculty candidates with background and experience in building data science systems (including architectural design, data mining, database systems, hardware, and software implementations) that target a well-defined application area. Examples of application areas include robotics, health, and cyber-physical systems. Research topics may include architectural design and implementation of devices and systems that push the state of the art in the use of data, data models, data-related workflows, and methods of artificial intelligence. Demonstrated applications of these advances in targeted areas are of special interest. System implementations that target cross-cutting needs such as data visualization, and system security are particularly welcome to apply. Accordingly, ideal candidates will have a doctorate in sciences or engineering with a record of research in data sciences.

Data Science and Society

We seek faculty candidates with a background in computer science and social sciences who explore the impact of risks and benefits of digital data for a well-defined vertical: such as democratic practice, health, education, trade in digital services, or societal infrastructure for energy, transportation, and communications or information infrastructures. Of prime interest will be candidates pursuing advances in theory, methods, and tools that help us understand security risks to organizations and the national infrastructure, and devise methods and policies to mitigate those risks considering both technical considerations and implementation factors such as social, political and economic feasibility.

Successful applicants will be expected to teach graduate and undergraduate students in the Data Science major/minor degree programs offered by the Institute. All candidates are expected to establish a vigorous program of high-quality, federally-funded research that focuses on innovations in one of the targeted search areas. Salary is commensurate with qualifications and based on University of California pay scales.

BASIC QUALIFICATIONS (required at time of application)

PhD/equivalent or Advancement to Candidacy by time of application.

PREFERRED QUALIFICATIONS

HDSI is committed to building an excellent, diverse, and inclusive faculty, staff, and student body. In addition to the highest standards of scholarship, teaching, and professional activity, successful candidates for this position will have demonstrated strong leadership or a commitment to support diversity, equity, and inclusion in an academic setting.

To apply, please visit: <https://apptrkr.com/3634213>

UC San Diego is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to excellence through diversity.