

Physics of Complex Systems FTE
Extended announcement



UNIVERSITY OF CALIFORNIA, DAVIS

POSITION ANNOUNCEMENT

Assistant Professor – Physics of Complex Systems

The University of California, Davis invites applications for a tenure-track position in the Physics of Complex Systems.

The position will focus on discovering physical principles and developing computational models and theoretical methods to predict the behavior and organization of a broad range of complex systems. The appointment will be at the Assistant Professor level and will be in the Department of Physics & Astronomy which will provide research space. Applications are sought from scholars who have strong and innovative research portfolios that would complement the existing research at the Complexity Sciences Center (csc.ucdavis.edu).

Complex systems is a highly interdisciplinary academic field using statistical mechanics, nonlinear dynamics, and applied mathematics to elucidate the organization and function of complex systems across a wide range of physical and applied disciplines. The ideal candidate should have a deep-rooted interest and demonstrated expertise in one or more areas such as: many-body physics, physics of information, computational physics, network science, machine learning, complex biological systems, non-equilibrium behavior, and complex earth systems.

UC Davis, located approximately one hour from the San Francisco Bay area, has a large and highly collaborative complex systems community. In addition to the interdisciplinary Complexity Sciences Center, there will be many opportunities for interactions with researchers at the Center for Quantum Mathematics and Physics, Center for Mind & Brain, the MIND Institute, and a variety of departments on the main campus.

Qualifications:

Ph.D. (or equivalent degree) in physics and mathematical physics or related field; demonstrated potential to develop a world-class research program in complex systems focusing on identifying general principles of structure and organization in stochastic nonlinear systems; a demonstrated record of teaching, or evidence of the potential to teach, undergraduate and graduate courses in physics; a record of attracting, or the potential to attract, extramural funding; and excellent potential for interactions/collaborations with existing faculty at the Complexity Sciences Center and relevant departments.

Application Process:

The position will remain open until filled. To ensure full consideration, completed applications should be received by 27 November 2023. Applications received after this date will be reviewed by the search committee if the position has not yet been filled.

Applicants should submit a cover letter, contact information for four letters of recommendation (letter writers will provide their letter via the application portal), a curriculum vitae, statements of research and teaching interests, representative reprints and/or preprints, and a statement of contributions to diversity electronically at: <https://recruit.ucdavis.edu/apply/JPF06057>.

For more information on the position, contact PhysicsOfComplexity@ucdavis.edu. For technical questions, please contact chairasst@physics.ucdavis.edu.

We are an Affirmative Action/Equal Opportunity employer, and particularly encourage applications from members of historically underrepresented racial/ethnic groups, women, individuals' with disabilities, veterans, LGBTQ community members, and others who demonstrate the ability to help us achieve our vision of a diverse and inclusive community. For the complete University of California nondiscrimination and affirmative action policy see: <http://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct>

Under Federal law, the University of California may employ only individuals who are legally able to work in the United States as established by providing documents as specified in the Immigration Reform and Control Act of 1986. Certain UC Davis positions funded by federal contracts or sub-contracts require the selected candidate to pass an E-Verify check. More information is available at: <http://www.uscis.gov/e-verify>

The University of California, Davis (UC Davis) is committed to inclusive excellence by advancing equity, diversity and inclusion in all that we do. UC Davis celebrates the multi-cultural diversity of its community by creating a welcoming and inclusive environment demonstrated through a variety of resources and programs available to academics, staff, and students. Diversity, equity, inclusion, and belonging are core values of UC Davis that are embedded within our [Principles of Community](#) and are tied with how to best serve our student population. Our excellence in research, teaching, and service can best be fully realized by members of our academic community who share our commitment to these values, which are included in our [Diversity and Inclusion Strategic Vision](#), our strategic plan: ["To Boldly Go,"](#) our Principles of Community, the [Office of Academic Affairs' Mission Statement](#), and the [UC Board of Regents Policy 4400: Policy on University of California Diversity Statement](#). UC Davis is making important progress towards our goal of achieving federal designation as a [Hispanic-Serving Institution and an Asian American, Native American, and Pacific Islander-Serving Institution](#). The [Office of Diversity, Equity, and Inclusion](#) offers a plethora of resources on their website, and the [Office of Health Equity, Diversity, and Inclusion \(HEDI\)](#) has outlined similar goals in their Anti-Racism and DEI Action Plan." There are a plethora of links available on the [About Us](#) webpage where you can learn more about our Administration, Diversity and Inclusion, Rankings, Locations, Native American Land Acknowledgement, Sustainability, Visiting UC Davis, UC Davis Health, and Campus Safety.

The university is consistently ranked among the top institutions in the world for campus sustainability practices by the [UI Green Metric World University Rankings](#). UC Davis is focused on achieving net-zero greenhouse gas emissions and repeatedly shown its [commitment to preserving a healthy and sustainable environment for generations to come](#).

As a University employee, you will be required to comply with all applicable University policies and/or collective bargaining agreements, as may be amended from time to time. Federal, state, or local government directives may impose additional requirements.

The University of California is committed to creating and maintaining a community dedicated to the advancement, application, and transmission of knowledge and creative endeavors through academic excellence, where all individuals who participate in University programs and activities can work and learn together in a safe and secure environment, free of violence, harassment, discrimination, exploitation, or intimidation. With this commitment, UC Davis conducts a reference check on all first-choice candidates for Academic Senate Assistant Professor, Steps 4, 5, or 6 through Professor, Lecturer with Potential for Security of Employment, Steps 4, 5, or 6 through Senior Lecturer with Security of Employment, and Acting Professor of Law through Professor of Law positions. The reference check involves contacting the administration of the applicant's previous institution(s) to ask whether there have been substantiated findings of misconduct that would violate the University's Faculty Code of Conduct. To implement this process, UC Davis requires all applicants for any open search for these faculty positions to complete, sign, and upload the form entitled "Authorization to Release Information" into RECRUIT as part of their application. If an applicant does not include the signed authorization with the application materials, the application will be considered incomplete, and as with any incomplete application, will not receive further consideration. Although all applicants for faculty recruitments must complete the entire application, only finalists considered for these faculty positions will be subject to reference checks.