

The University of California at Riverside (UCR) is embarking on a major new hiring initiative that will add 300 tenure-track positions in 33 cross-disciplinary areas selected through a peer-reviewed competition. Over the next three years, we will hire multiple faculty members in each area and invest in research infrastructure to support their work. This initiative will build critical mass in vital and emerging fields of scholarship, foster truly cross-disciplinary work and further diversify the faculty at one of America's most diverse research universities. We encourage applications from scholars committed to excellence and seeking to help redefine the research university for the next generation.

The Electrical and Computer Engineering Department of the Bourns College of Engineering is leading cluster hires with potential home departments in engineering or the sciences to enhance UCR's research strengths in:

**Computational Materials (3 positions):**

One area includes ab initio approaches with applications in energetics and kinetics of material growth and structure including dopants, crystal defects, domain boundaries, crystal hetero-interfaces, magnetic properties, and vibrational spectra. A second area includes GW, Bethe-Salpeter, and TDDFT approaches. A third area will focus on strongly correlated materials using traditional tools of condensed matter theory or more quantitative tools such as dynamical mean field theory or quantum Monte Carlo. All candidates are expected to collaborate with experimental groups.

**Intelligent and Autonomous Embedded Systems (3 positions):**

Areas of primary interest include: robotics, autonomy, and computer vision; planning, decision-making, and machine learning; and embedded, networked, and real-time systems. Excellent candidates with theoretical and system-building research experience are desired.

**Phonon and Magnon Engineered Materials and Devices (3 positions):**

Areas of interest include: spectroscopy of phonons and magnons, phonon transport in nanostructures, phononic crystals and phonon engineered materials, thermoelectric devices, magnetic materials, spin waves and magnonic devices. The candidates are expected to collaborate with the research centers on campus focused on investigation of phonons and spins in nanoscale systems.

A PhD in a relevant area is a minimum requirement. Candidates must have published research of the highest quality and demonstrate exceptional promise for, or a proven record of, high quality research and teaching, securing external funding, collaborating across disciplines, and working successfully to benefit a diverse student body. UCR is a world-class research university with an exceptionally diverse undergraduate student body. Its mission is explicitly linked to providing routes to educational success for underrepresented and first-generation college students. A commitment to this mission is a preferred qualification. Advancement through the faculty ranks at the University of California is through a series of structured, merit-based evaluations, occurring every 2-3 years, each of which includes substantial peer input.

Full consideration will be given to applications received by December 15, 2015. We will continue to consider applications until all positions are filled.

To apply, please register through the web link at  
<http://www.engr.ucr.edu/facultysearch/>.

For inquiries and questions, please contact us at  
[search@ece.ucr.edu](mailto:search@ece.ucr.edu).

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, age, disability protected veteran status, or any other characteristic protected by law.