

Assistant Professor of Chemical Engineering

Department of Viticulture & Enology with joint appointment in the Department of Chemical Engineering & Materials Science, University of California, Davis

The [Department of Viticulture & Enology](#) in the College of Agricultural & Environmental Sciences is recruiting an Assistant Professor specializing in chemical engineering with a joint appointment in the [Department of Chemical Engineering & Materials Science](#) in the College of Engineering. The area of specialization is open, however, this academic year (9-month) tenure track assistant professor position includes an expectation that the appointee conduct mission-oriented research and outreach of relevance to California stakeholders. This Assistant Professor position will include an appointment in the Agricultural Experiment Station. Faculty members who hold an Agricultural Experiment Station appointment have a responsibility to conduct research and outreach relevant to the mission of the California Agricultural Experiment Station. Participation in outreach programs and performance of University service are expected.

The appointee will be expected to develop a research program on basic and/or applied aspects of chemical engineering with application to the wine industry and other related industries. Areas of research may include, but are not limited to, sustainable processing, water minimization and treatment, alternative energy generation, fermentation process or metabolic engineering, byproduct recovery and conversion and separations technology.

The appointee will be responsible for teaching undergraduate coursework in wine processing and engineering concepts in wine and food production. Additional contributions to departmental courses and graduate education in both Viticulture & Enology and Chemical Engineering & Materials Sciences are expected. Mentoring of graduate students in both Viticulture & Enology and Chemical Engineering & Materials Science, undergraduate student advising, participation in and development of outreach programs, curricular development, and performance of departmental and university service are expected.

The research, teaching and outreach mission of the Department of Viticulture and Enology focuses on the creation, development and distribution of basic and applied knowledge related to the production of grapes and wine, with a scope extending from the fundamental molecular level to a process scale in both the vineyard and the winery. The department is internationally recognized as a premier center of excellence in these fields. Faculty and specialist programs within the department concentrate on table, raisin, and wine grapes, as well as the science and practices of winemaking. Fields of study within the department include microbiology, analytical and natural products chemistry, chemical engineering, sensory science, plant physiology, plant systems biology, plant-water relations, and climate. The Department of Chemical Engineering & Materials Science has faculty that span all the traditional fields of research within chemical engineering.

The appointee will have access to wide-ranging winery infrastructure resources and

many collaborative opportunities within the department, other departments within the College of Agricultural & Environmental Sciences, and with colleagues in the College of Engineering and the College of Biological Sciences, among others. In 2011, the department opened the most technically-advanced and sustainable winery in the world, co-located with their state-of-the-art research and teaching laboratories in the [Robert Mondavi Institute of Wine and Food Science](#), completed in 2008. The recently-completed [Jess S. Jackson Sustainable Winery Building](#), provides research space for piloting sustainable processing concepts related to component recovery, water and energy efficiency or chemical and carbon footprints for the wine and other food and beverage industries.

Responsibilities: The appointee is expected to establish a competitively-funded research program relevant to chemical engineering with applications relevant to the wine and food industries. The appointee will be responsible for teaching graduate and undergraduate coursework related to engineering concepts in winemaking. Mentoring of graduate students, undergraduate student advising, participation in and development of outreach programs, curricular development, and performance of departmental and university service is expected. The appointee is expected to conduct mission-oriented research and outreach of relevance to the California Agricultural Experiment Station.

Qualifications: Ph.D. or equivalent degree in chemical engineering or a closely-related field. Prior experience in viticulture and/or enology is not a requirement. Evidence of research excellence is expected. The candidate should have the ability to develop and instruct undergraduate and graduate courses and the ability to develop and conduct extramurally funded research in engineering.

Salary: Commensurate with experience within the Assistant Professor ranks at the University of California.

Applications: Application materials must be submitted via the following website: <https://recruit.ucdavis.edu/>. The position will remain open until filled. To ensure consideration, applications should be received by **October 23, 2013**.

Materials requested to include: 1) curriculum vitae, 2) publications list, 3) up to three full publications, 4) transcripts if the applicant is within five years of PhD degree, 5) statement of future research plans including relevance to food and beverage industries, 6) statement of teaching philosophy and projected teaching roles in the Department of Viticulture & Enology and Chemical Engineering & Materials Science, 7) the names, addresses, including e-mail, of at least four professional references. Additional inquiries should be directed to Professor David Mills, Search Committee Chair, Department of Viticulture and Enology, One Shields Avenue, University of California, Davis, CA 95616, (530) 754-7821, damills@ucdavis.edu.

UC Davis is an affirmative action/equal employment opportunity employer and is dedicated to recruiting a diverse faculty community. We welcome all qualified applicants to apply, including women, minorities, veterans, and individuals with disabilities.