

**Sonny Astani**

Department of Civil and Environmental Engineering

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Faculty Search

University of Southern California
Sonny Astani Department of Civil and Environmental Engineering

The [Sonny Astani Department of Civil and Environmental Engineering \(cee.usc.edu\)](#) of the [Viterbi School of Engineering \(viterbi.usc.edu\)](#) of the [University of Southern California](#) invites nominations and applications for **tenured or tenure-track faculty positions at all levels in leading-edge areas of civil and environmental engineering**. The Department has established the following four major thrust areas of targeted research: Coupling of Complex Systems, Disasters and Extreme Events, Sustainable Development, and Water Quality, Access and Distribution. We anticipate hiring several new faculty in the Water area and several in other areas.

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Positions in Water Quality, Supply, Access and Distribution

One of the great challenges facing the world now is providing an adequate supply of potable water, considering population growth and climate variability. This is a global problem, including modern cities in arid climates to growing communities in the developing world with little or no water distribution system. We seek exceptional candidates with specializations across a wide range of environmental topics, including (but not limited to): desalination through membrane, thermal, solar or hybrid physical and chemical processes; sustainable [technologies](#) for drinking water and wastewater treatment of emerging contaminants; and environmental biotechnology/microbiology for applications in wastewater management, drinking water supply, natural/coastal waters and public health.

Positions in All Other Areas of Civil & Environmental Engineering

This is a broad search seeking faculty with research and teaching experience in the thrust areas of Coupling of Complex Systems, Disasters and Extreme Events, and Sustainable Development. Example areas of desired expertise within these thrust areas might include, for example, operations research and integrated assessment of complex systems and their coupling and interactions, understanding multi-scale processes involved in natural or man-made disasters and the resulting environmental and social reactions, and development of future materials and technologies for sustainable infrastructure and clean energy. Applicants should state which thrust area is most closely related to their expertise, as well as how they might collaborate with other areas.

The Astani Department has [20 tenured/tenure track faculty members](#), which include two chaired professors, five Young Investigator and Early Career awardees, and a number of fellows of professional organizations. In November 2007, the Department was the beneficiary of a [\\$17 million pledge](#) from Sonny Astani, the largest ever bestowed on a department of civil and environmental engineering. The faculty have close working collaborations with other engineering departments in the Viterbi School as well as with the [Keck School of Medicine of USC](#), the USC [School of Architecture](#) and the USC [Price School of Public Policy](#), and are participants in USC's [CREATE](#) (the Department of Homeland Security's first center of excellence).

We seek individuals who can provide strong, dynamic and innovative leadership to advance excellence in research, teaching and service to the professional community in the areas of civil and environmental engineering. Candidates should have an earned doctorate in civil or environmental engineering or in a closely allied field and be eligible for a tenure-track or tenured professor appointment. *Applications from transformative and interdisciplinary scholars are especially encouraged.* Transformative scholars are distinguished individuals whose accomplishments are transforming the field. Interdisciplinary scholars are outstanding individuals engaged in research aligned with the interests of the Department but whose research also cuts across other departments in the School and University.

Positions are available starting August 16, 2013. To receive full consideration, candidates should apply on-line at Viterbi's faculty application website: viterbi.usc.edu/facultyapplications/. Application materials include a cover letter describing technical qualifications (stating which thrust area is most closely related to the applicant's expertise, as well as how he/she might collaborate with other areas), a curriculum vitae, a statement of research and teaching interests, and contact information for suggested references. Evaluation of applications will start in November 2012 and [continue](#) into early 2013. Early submission is strongly advised. All application material will be held in the strictest confidence. Interested individuals are welcome to contact Dr. Erik A. Johnson, Associate Chair, Sonny Astani Department of Civil and Environmental Engineering, KAP 210, Mail Code 2531, University of Southern California, Los Angeles CA 90089-2531 (email: JohnsonE@usc.edu). The Department's [web site \(cee.usc.edu\)](#) has details on current educational and research programs.

The USC Viterbi School of Engineering is among the top engineering schools in the world. More than a third of its 180 tenured/tenure-track faculty members are fellows in their respective professional societies and 35 affiliated faculty have been elected to the National Academy of Engineering. The School is home to over 45 research centers and institutes, including the Information Sciences Institute (ISI), two National Science Foundation Engineering Research Centers, the Department of Homeland Security CREATE Center, and an Energy Frontiers Research Center (EFRC) supported by the Department of Energy. It is affiliated with the Alfred E. Mann Institute for Biomedical Engineering, the Institute for Creative Technologies, and the USC Stevens Center for Innovation. USC Viterbi faculty conduct research in leading-edge technologies with annual research expenditures typically exceeding \$180 million.

The University of Southern California values diversity and is committed to equal opportunity in employment. Women and men, and members of all racial and ethnic groups are encouraged to apply.

Note: This ad can be found online at <http://cee.usc.edu/facultysearch>