



Washington State University

Voiland Distinguished Professor in Catalysis for
Clean Energy Search



World Class. Face to Face.

Harris Search Associates

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About Washington State University

Washington State University (WAZZU) is a public research university based in Pullman Washington, in the Palouse region of the Pacific Northwest. Founded in 1890, WSU is the state's original and largest land-grant university. The university is well known for its programs in chemical engineering, veterinary medicine, agriculture, animal science, food science, plant science, architecture, neuroscience, criminal justice, and communications, as well as its atmospheric, biological chemistry, shock physics, sleep, and wood materials research laboratories. It is ranked in the top-ten universities in the US in terms of clean technology and it is one of 96 public and private universities in America with "very high research activity," as determined by the Carnegie Foundation for the Advancement of Teaching. WSU is ranked among the top half of national universities at 106th according to *U.S. News*.

The university also operates branch campuses across Washington known as WSU Spokane, WSU Tri-Cities, and WSU Vancouver, all founded in 1989. These campuses award primarily bachelor's and master's degrees. Freshmen and sophomores were first admitted to the Vancouver campus in 2006 and to the Tri-Cities campus in 2007. The university also offers eight undergraduate degrees, a professional science masters and an online MBA to students around the world through WSU Online, formerly known as Distance Degree Programs. Total enrollment for the four campuses and WSU Online exceeds 25,900 students. In 2009, this included a record 1,447 international students, the highest since 1994 when there were 1,442.

WSU's athletic teams are called the Cougars and the school colors are crimson and gray. The six men's and nine women's varsity teams compete in NCAA Division I in the Pacific-12 Conference.

The university offers bachelor's, master's, and doctoral degrees in 200 fields of study through 65 departments, schools and programs.

In addition, WSU has a University College for students who have not declared majors, an all-university Honors College, a Graduate School, and an accredited intensive English program for non-native speakers (the Intensive American Language Center).

Research

WSU spent \$283.1 million on research in the 2008 fiscal year. In 2007 National Science Foundation rankings of research and development expenditures, WSU ranked 22nd among public research universities without a medical school, 57th among all public research institutions, and 82nd among all research institutions, public and private.

The Place

Pullman is the largest community in Whitman County (located in southeastern Washington) and is located approximately 76 miles from Spokane and seven miles west of the Washington/Idaho border (and Moscow, ID, home of the University of Idaho).

Pullman's economy is based primarily on government entities, Washington State University, trade center activities, a growing manufacturing and high-tech research sector and agriculture. Pullman's landscape is comprised of the rolling hills of the Palouse country with elevations from 1,100 to 3,400 feet above sea level (average elevation is 2,346 feet above sea level). Approximately 1,328,337 acres are devoted to cropland on 1,087 farms throughout Whitman County.

Pullman-Moscow Airport offers flights daily to and from Seattle's Sea-Tac Airport (35,233 boardings in 2010). Lewiston (Clarkston) Nez Perce Airport (35 miles from Pullman) also offers flights through Alaska Air. Amenities also include over 1000 acres of parkland within the city limits. Pullman offers both fixed route and Dial-A-Ride services with a combined ridership of over 1,400,000 (2010) and ten miles of bicycle/pedestrian paths.

Pullman Regional Hospital: PMH is the premier health care facility on the Palouse and is accredited by the Joint Commission on Accreditation of Healthcare Organizations. It is a 25-bed acute care, critical access facility with an Emergency Department which is the region's only 24-hour urgent care center. Hospital staffing includes board certified emergency medicine physicians.

The Gene and Linda Voiland School of Chemical Engineering and Bioengineering

<http://www.chebe.wsu.edu>

The Voiland School offers degrees in chemical engineering and bioengineering that prepare leaders who solve the most important challenges facing our nation and the world. In recognition of the skills learned by studying in the Voiland School, salaries paid to chemical engineering and bioengineering graduates are among the highest earned by students graduating in any discipline. There are currently 300 undergraduate and over 50 graduate students enrolled.

WSU's chemical engineering program provides a thorough knowledge of basic science and engineering. This includes material and energy balances, chemical and physical equilibria, rate processes, and economic balances. With such training, graduates may participate in the design and production of chemically based products or they may engage in research leading to new or improved chemical processes, products, and uses. Graduates also find rewarding work in plant operation, plant management, university teaching, sales/service, and other functions requiring chemical engineering training. Many students also use their educations in chemical engineering as preparation for other professional degrees such as medicine or law. The curriculum in chemical engineering in the College of Engineering is accredited by ABET.

The Bachelor of Science degree in Bioengineering was approved in spring of 2003 and is an official degree program at WSU. The BS Bioengineering degree is accredited by ABET. An emerging engineering discipline, the program integrates engineering and life sciences to address issues important to human and animal well-being and to society at large. As such, the educational objective of the BS Bioengineering degree is to prepare graduates for productive employment, advanced study, or professional programs where they apply principles and methods of both engineering and life sciences to solve problems affecting human and animal health and well-being. Graduates may apply their expertise in human and animal medicine, biotechnology, or related biology-based engineering fields.

The Position

Washington State University invites applications and nominations from external candidates for the position of Voiland Distinguished Professor in Catalysis for Clean Energy Systems.

The Voiland Distinguished Professorship is funded via a generous gift from Gene and Linda Voiland. This tenure-eligible, full professor level position is to be located at the Pullman campus.

The successful candidate will be nationally/internationally recognized as a scholar and leader that would merit appointment as a full professor to build upon the department's strategic vision of augmenting research productivity and external stature. The candidate will produce and promote outstanding scholarly research, and accelerate the Department's advancement both in large-scale research funding and partnerships. The new Distinguished Professor will be provided with the resources necessary to facilitate such efforts.

The successful candidate will have an outstanding record of published work in internationally regarded, peer refereed publication, be able to synergize with other catalysis researchers at WSU and PNNL, and be able to indicate how she/he would leverage resources, including other faculty, to develop significant federal and/or industrial funding.

He/She will have demonstrated past success in the development and leadership of a premier research group; and be willing to actively participate in the School's academic culture and activities. Moreover, a successful candidate should be able to develop and maintain collaborations with scientists and engineers at the US Department of Energy's Pacific Northwest National Laboratory (PNNL). Joint appointments with PNNL's Institute for Interdisciplinary Catalysis may be possible. Located in Richland, Washington, PNNL is one among ten U.S. Department of Energy (DOE) national laboratories managed by DOE's Office of Science. PNNL research strengthens the U.S. foundation for innovation and finds solutions for not only DOE, but for the U.S. Department of Homeland Security, the National Nuclear Security Administration, other government agencies, universities and industry. PNNL provides the facilities, unique scientific equipment, and world-renowned scientists and engineers to strengthen U.S. scientific foundations through fundamental research and innovation. PNNL-led research prevents and counters acts of terrorism through applied research in information analysis, cyber security, and the non-proliferation of weapons of mass destruction, increases U.S. energy capacity and

reduces dependence on imported oil through research of hydrogen and biomass-based fuels, and reduces the effects of energy generation and use on the environment.

Approximately 4,900 individuals are employed at PNNL. PNNL conducts more than \$1.1 billion in work each year. The Richland campus includes unique laboratories and specialized equipment as well as the William R. Wiley [Environmental Molecular Sciences Laboratory](#) (EMSL), a DOE Office of Science national scientific user facility. EMSL, provides integrated experimental and computational resources for discovery and technological innovation in the environmental molecular sciences to support the needs of DOE and the nation.

EMSL is funded by DOE's Office of Biological & Environmental Research, which supports world-class research in the biological, chemical, and environmental sciences to provide innovative solutions to the nation's environmental challenges as well as those related to energy production. EMSL's distinctive focus on integrating computational and experimental capabilities as well as collaborating among disciplines yields a strong, synergistic scientific environment. EMSL's unparalleled collection of computational and experimental capabilities allows researchers to tackle scientific challenges from all angles. EMSL experts create new tools, tailor existing instruments, and upgrade the instrument collection to meet researchers evolving needs. EMSL's flagship capabilities include supercomputing, state of the art mass spectrometers, NMR, and surface science tools.

Because of its unique capabilities and outstanding scientific staff, PNNL has been designated by the Department of Energy as the DOE's lead laboratory for fundamental and applied catalysis research. At PNNL, this research is coordinated through the Institute for Interfacial Catalysis (<http://iic.pnnl.gov>). Several scientists in the IIC collaborate with the Voiland School, with adjunct or joint appointments.

She/He will have demonstrated interdisciplinary accomplishment and skills that create alliances within the department, and with stakeholders throughout the university that will promote opportunities for growth and innovation in a large complex academic institution.

Responsibilities:

- Conduct innovative research in the area of catalysis for clean energy systems
- Advise graduate students, and teach chemical engineering courses
- Be a leader in the development of emerging research areas, the establishment of centers and institutes, and the coordination of interdisciplinary activities

- Lead, promote, and facilitate the efforts of faculty to develop large, multi-disciplinary research programs and funding
- Promote and foster high quality research, teaching, scholarship, and service in the department
- Facilitate open communication with departments, faculty, students and external stakeholders
- Serves as an advocate for the School and to promote and expand collaborations between the chemical engineering program faculty, scientists at the Pacific Northwest National Laboratory, collaborators in industry, and other prospective partners
- A willingness to integrate the activities of the catalysis group with educational programs of the Voiland School

Qualifications

- Candidates must possess an earned doctorate in chemical engineering or a closely aligned field, and be eligible for appointment as a full professor in chemical engineering
- Demonstrated excellence and recognition of research and scholarly achievement at national and international levels and a commitment to continued excellence in research.
- Demonstrated understanding of the role and operation of a doctoral granting national research university
- A track record of dynamic leadership skills in academia, possess excellent communication and interpersonal skills, and be able to assist in implementing a compelling vision for its research, education, and service programs.
- Demonstrated commitment to academic excellence at both the undergraduate and graduate levels.
- Demonstrated commitment to the recruitment and retention of a diverse faculty, staff and student body to facilitate cultural diversity and equal opportunity.

Procedure for Candidacy:

Review of applications will begin immediately and applications accepted until the position is filled, with an anticipated start date of July, 2012

Applications should be accompanied by a letter of application and curriculum vitae. Applications and nominations will be accepted until the position is filled. Confidential review of materials and screening of candidates will begin in the spring and continue until the position is filled.

WSU offers outstanding benefits include health, dental, and life insurance; paid vacation, sick leave and holiday.

Washington State University is an Equal Opportunity/Affirmative Action Employer. Members of ethnic minorities, women, disabled veterans, veterans of the Vietnam-era, recently separated veterans, and other protected veterans, persons of disability and/or persons age 40 and over are encouraged to apply.

WSU employs only U.S. citizens and lawfully authorized non-U.S. citizens. All new employees must show employment eligibility as required by the U.S. Citizenship and Immigration Services.

Washington State University is being assisted by Harris Search Associates for this search. Please contact to Jeffrey Harris, Managing Partner for further detail.

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