

Faculty Position in *Wind Energy* at Penn State

The Department of Aerospace Engineering at the Pennsylvania State University invites applications for a full-time, tenure-track position starting in 2010. We seek an outstanding individual who is committed to education and the establishment of an externally-funded research program in the area of wind energy. The position is open-rank and is affiliated with the Penn State Institutes of Energy and the Environment (PSIEE).

Of interest is research leading to improved rotor design, increased efficiency, and greater longevity of wind turbines. Specific areas of interest include: aeroelasticity (blade deformation, vibration and stability), aerodynamics (unsteady loading, dynamic stall, and turbulence), structures (advanced materials, composites, elasticity), aeroservoelasticity (load-mitigating control, flow-control devices, sensors and actuators), and integrated wind-turbine design. More general areas of interest include: wind resource assessment and siting, atmospheric boundary layer interactions, energy storage and distribution, systems engineering and design, and wind energy economics and policy. A research program with an experimental component would be advantageous.

The ideal candidate will have an earned doctoral degree, with research related to one of the areas above with specific concentration in wind energy, or have commensurate post-doctoral experience. The successful candidate will interact with other members of an interdisciplinary cross-campus wind energy group, and will provide leadership in the development of new collaborative initiatives. This individual will be expected to contribute to the teaching mission by developing new courses relevant to wind energy and by contributing to the advancement of academic programs in sustainable energy.

Applications should include a cover letter, a complete curriculum vitae, statements of teaching and research plans, and a list of at least three professional references. Responses received before December 1, 2009, will be assured full consideration, but the search will remain open until the position is filled. Applications should be directed to: Chair, Faculty Search Committee, Aerospace Engineering, 229 Hammond Building, The Pennsylvania State University, University Park, PA 16802. Inquiries can be made via e-mail at aerospace@engr.psu.edu or by phone at 814-865-2569.

The Department of Aerospace Engineering has an international reputation in aeronautics and astronautics, and our Vertical Lift Research Center of Excellence is one of only two such centers in the U.S. The Department currently has 15 full-time faculty members, with 250 undergraduate and 110 graduate students. Annual external research expenditures are approximately \$5 million. The College of Engineering is home to the Center for Sustainability. Related research is also conducted in other departments, including Mechanical Engineering, Electrical Engineering, and Meteorology, as well as in the Applied Research Laboratory on the Penn State campus.

Penn State at University Park is a land-grant institution located within the beautiful Appalachian mountains of central Pennsylvania. State College and nearby communities within Centre County are home to roughly 100,000 people, including over 40,000 students, and offer a rich variety of cultural, recreational, educational, and athletic activities. State College is a wonderful community in which to raise a family and the local school system is among the mostly highly ranked in the United States.

We encourage applications from individuals of diverse backgrounds. Penn State is committed to affirmative action, equal opportunity and the diversity of its workforce.