OKLAHOMA STATE UNIVERSITY

DIVISION OF AGRICULTURAL SCIENCES AND NATURAL RESOURCES

DEPARTMENT OF BIOSYSTEMS AND AGRICULTURAL ENGINEERING

Mechanization Systems Engineer
Assistant Professor, Tenure-track

Nature of Position: This faculty position (9-month, tenure-track) with primary teaching (90%) and research (10%) responsibilities.

Position Responsibilities: Develop and conduct a nationally recognized teaching and research program; provide expertise in the area of designing machines and machine systems for a variety of areas which could include production, harvesting, transport, and manufacturing related to crop and livestock production.

Academic program will include:

- Developing and teaching a series of courses related to machine systems such as machine design, fluid power systems, and/or advanced machine design/systems (undergraduate and graduate level)
- Providing coordinating leadership for mechanization service courses primarily for vocational agriculture education students and teachers.

Research program will include opportunities:

- For projects that utilize intelligent machines and other mechanical system applications typically funded through USDA-NIFA, DOE, NSF, and industry partners within and beyond agriculture.
- For a program that is highly visible and productive and that relates to bio-based products and processing.

This position will teach required engineering coursework in machine design for biomechanical students within the Biosystems Engineering degree program (accredited by the engineering accreditation commission of ABET, http://www.abet.org) while advancing the course offerings (undergraduate and graduate level) in areas of advanced machine design, mechanical power transmission and off-road equipment engineering. Based on a 9-month appointment, opportunities for supplemental support tied to research of biomechanical engineering and mechanization-based needs can be achieved. The candidate will also actively participate in graduate education through recruiting and advising M.S. and Ph.D. students. Scholarly activity can be directed toward teaching and research endeavors. The candidate would be expected to be involved in undergraduate academic advising and club advising (Cowboy Motorsports) as part of the teaching duties. The successful candidate would be expected to work collaboratively with faculty in Biosystems and Agricultural Engineering and other units in the Division of Agricultural Sciences and Natural Resources (DASNR), the College of Engineering, Architecture and Technology and other interdisciplinary units when appropriate.

The person in this position would be expected to coordinate the teaching of mechanization-based teaching modules associated with service courses provided through the Biosystems and Agricultural Engineering Department toward students in a variety of programs within and outside the College of Agricultural Sciences and Natural Resources. These course modules have historically included shop and field skills (such as lab management and project construction, agricultural electrification, metals and welding, small engines, surveying, and agricultural structures). Expectations are that existing courses will be evolved to a more efficient and practical approach.

Qualifications: PhD in in Biosystems Engineering, Agricultural Engineering, Automotive Engineering or Mechanical Engineering (all requirements for the degree must have been met prior to start date). Expertise in the area of machine design and mechanical systems. Registered professional engineer or eligible to pursue the licensure process. Potential to teach at the graduate level and toward the bio-mechanical design needs within the Biosystems Engineering undergraduate program.
Expertise in mechanical shop and mechanization techniques. Knowledge of Southern Plains production agriculture. Candidates must have excellent speaking and writing skills, an ability to teach effectively at the undergraduate level, and a desire to work collaboratively in an interdisciplinary environment.

Employment Conditions: Full-time, 9-month, tenure-track faculty appointment at the rank of Assistant Professor. Salary commensurate with qualifications and experience. Hiring contingent upon available funding.

Application Process: Applications should include a resume, transcripts, and a list of at least three professional references with complete contact information. Application materials should be submitted electronically to

BAEFaculty_Search@okstate.edu *(underscore between Faculty and Search)*

Or mailed to:

Mechanizations Engineering Faculty Search
Biosystems and Agricultural Engineering Department
111 Agricultural Hall
Oklahoma State University
Stillwater, OK 74078-6016

Questions concerning the position's responsibilities may be directed to either Dr. Carol L. Jones (carol.jones@okstate.edu) or department head Dr. Daniel Thomas (daniel.thomas@okstate.edu)

Application Deadline: Screening of applications will begin October 15, 2013. Applications will be accepted until a candidate is selected for the position.

Oklahoma State University is an AA/EEO/E-Verify Employer Committed to Diversity.
The OSU/Stillwater campus is tobacco free.