Multiple Non-Tenure Track Faculty Positions in Engineering
University of Missouri-Columbia

Job Title: Multiple Non-Tenure Track Faculty Positions in Engineering
Department: College of Engineering
Institution: University of Missouri-Columbia
Columbia, Missouri

Date Posted: Mar. 9, 2016
Application Deadline: May 2, 2016
Position Start Date: Available immediately

Job Categories: Lecturer/Instructor, Assistant Professor

Academic Field(s): Mechanical Engineering, Industrial & Systems Engineering, Ecological and Environmental, Computer Engineering, Computer Science, Civil Engineering, Chemical/Petroleum, Bioengineering (all Bio-related fields)

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Job Description:

Multiple Non-Tenure Track Faculty Positions in Engineering
The University of Missouri, Columbia, MO

POSITIONS: Non-Tenure Track Teaching Faculty in Engineering
Multiple Non-Tenure Track Faculty Positions in Engineering  
University of Missouri-Columbia  

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**ANTICIPATED START DATE:** August 1, 2016  
**LOCATION:** Columbia, Missouri  
**GENERAL INFORMATION:** The University of Missouri-College of Engineering has launched an initiative to create programs of excellence. In order to support this initiative, a national search for multiple new non-tenure track (NTT) teaching faculty across seven different departments is being conducted: (1) Bioengineering, (2) Chemical Engineering, (3) Civil and Environmental Engineering, (4) Computer Science, (5) Electrical and Computer Engineering, (6) Industrial and Manufacturing Systems Engineering, and (7) Mechanical and Aerospace Engineering.

**SALARY:** Compensation is competitive and commensurate with qualifications of the applicant.

**QUALIFICATIONS:**  
The NTT teaching faculty will augment the existing faculty within the college to be responsible for the teaching of an of courses across the various departments. We are seeking candidates who have a commitment to teaching excellence. The qualified candidate must demonstrate proficiency in the English language, both written and verbal. Applicants should expect to have a PhD by the appointment start date that is consistent with at least one Teaching area listed below, or closely related fields. The positions are 9-month, full-time, non-tenure track (NTT) teaching appointments, ranging from Lecturer to Associate Teaching Professor in title. Candidates will be expected to teach up to four courses per semester at the undergraduate and graduate levels, and to perform service for the institution and professional organizations. Additional required and/or desirable qualifications are included in the description of each of the areas as described below:

- **Bioengineering:** Bioengineering (BE) is a science-based engineering discipline that integrates engineering and biological sciences in one curriculum. Bioengineers develop products and design systems or processes for improvement of human and animal health, use of bioresources, and protection of the environment. It is a broad-based curriculum that prepares students for careers in three engineering areas: biomedical, bioprocessing, bioenvironmental. We are seeking candidates with teaching experience in any of these area of Bioengineering and be able to teach Matlab Programming and Applied Electronic Instrumentation.

- **Chemical Engineering:** We have four immediate openings for NTT teaching faculty. 1) A NTT “Professor of Practice” to teach our senior-level “Chemical Engineering Design”, and “Process Simulation and Design” courses each semester, as we as teach an additional course each semester in support of our biochemical, environmental, or materials degree emphases. Experience acquired through a professional design engineering position outside of academia is expected. 2) Teach three of our core courses each semester: “Mass and Energy Balances”; “Principles of Chemical Engineering”; and “Chemical Reaction Engineering”. 3) Teach our core courses each semester in “Computer-Aided...
Calculations in Chemical Engineering”; “Chemical Engineering Thermodynamics II”; and “Principles of Chemical Engineering II”. 4) Address our “Unit Operations Laboratory course” and several courses each semester in support of our biochemical, environmental, or materials degree emphases. Requirements for all NTT positions: B.S. in Chemical Engineering from an ABET certified program; Ph.D. in Chemical Engineering, or closely related discipline.

Civil and Environmental Engineering: Candidates should be qualified to teach fundamental engineering courses, such as Statics, Mechanics of Materials, Fluid Mechanics, and Dynamics, as well as lower and upper-level courses in one or more of the following civil engineering focus areas: Structural Engineering, Geotechnical & Geoenvironmental Engineering, Traffic & Transportation Engineering, and Environmental & Hydraulic Engineering. Candidates should have a PhD in Civil Engineering and university-level teaching experience with a record of teaching excellence.

Computer Science: Seeking candidates with an excellent teaching record in the following areas: software engineering, algorithm design, database systems, operating systems, and/or networking.

Electrical and Computer Engineering: Seeking candidates with an excellent teaching record in three main areas. 1. Computer Engineering: Expertise in computer organization and design, digital design, reconfigurable computing, and embedded system design. 2. Power Systems: Expertise in rotating machinery, three-phase power systems, power electronics and general electric grid calculations: be able to provide students with knowledge in basic power system calculations and advanced concepts of power transmission. Experience with SPICE and MATLAB or Mathematica is highly desirable, as well as experience with electric grid simulators. 3. Semiconductor area: Expertise in semiconductor but not limited to device physics, optoelectronics, photonics, semiconductor materials, lattice dynamics, organic and inorganic semiconductors, charge transport, etc.

Industrial and Manufacturing Systems Engineering: Seeking teaching faculty with ability to cover courses in engineering probability and statistics, stochastic operations research, production operations and information systems. Preference will be given to candidates with a BSIE degree from an ABET accredited program.

Mechanical and Aerospace Engineering: Candidates should be qualified to teach fundamental engineering courses such as Statics, Mechanics of Materials, Dynamics, Fluid Mechanics, Thermodynamics, and Instrumentation and Measurements Lab. Candidates should have a Ph.D. in Mechanical or Aerospace Engineering and university-level teaching experience.

Columbia, home of the University of Missouri and a member of the Southeastern Conference (SEC) in Division I sports, is a dynamic college town of 110,000 residents with small-town convenience and warmth with big-city service and amenities. It has consistently been recognized by Consumer’s Digest
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and Money as one of the top places to live in the U.S. and was listed in the book 50 Fabulous Places to Raise Your Family. Cost of living rates are noticeably lower than compared to many U.S. cities. For more information about Columbia, see http://www.visitcolumbiamo.com/.

The College of Engineering offers a vibrant research and teaching culture where innovative and interdisciplinary is conducted in a collegial atmosphere. It is committed to enhancing a culturally diverse community of faculty, staff, and students. We seek individuals who are committed to this goal and our core campus values of respect, responsibility, discovery and excellence.

These positions are eligible for University benefits. The University offers a comprehensive benefits package, including medical, dental and vision plans, retirement, and educational fee discounts. For additional information on University benefits, please visit the Faculty & Staff Benefits website at http://www.umsystem.edu/totalrewards/benefits

Equal Employment Opportunity
The University of Missouri is an equal access, equal opportunity, affirmative action employer that is fully committed to achieving a diverse faculty and staff. Equal Opportunity is and shall be provided for all employees and applicants for employment on the basis of their demonstrated ability and competence without unlawful discrimination on the basis of their race, color, national origin, ancestry, religion, sex, sexual orientation, gender identity, gender expression, age, genetic information, disability, or protected veteran status. For more information, call the Associate Vice Chancellor of Human Resource Services/Affirmative Action officer at 573-882-4256.

To request ADA accommodations, please call the Director of Accessibility & ADA Education at 573-882-5835.
EEO IS THE LAW

To read more about Equal Employment Opportunity (EEO) please use the following links:
• EEO is the Law English Version
• EEO is the Law Spanish Version
• EEO is the Law Chinese Version

TO APPLY:
To apply, candidates must submit a Candidate Profile using our online application process at http://hrs.missouri.edu/find-a-job/academic/index.php and be prepared to upload a cover letter which should include the discipline where you wish to apply, CV, teaching statement and contact information for three references. Applications will be reviewed and considered as they are received until all the positions are filled.
Questions about this position should be directed to Hani Salim, Associate Dean, salimh@missouri.edu

APPLICATION DEADLINE: May 2, 2016

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact      Hani Salim, Associate Dean
             College of Engineering
             University of Missouri-Columbia
             Columbia, MO

Contact E-mail salimh@missouri.edu