Missouri University of Science and Technology: two positions

Missouri University of Science and Technology (Missouri S&T) is seeking candidates for two positions: (1) tenure-track at the assistant professor level and (2) mid-career position at either the associate professor or professor level who excel in interdisciplinary research to advance our campus signature area of Smart Living. Smart Living seeks to improve the human living condition by enhancing the integrated system of people, technology, and the environment. Smart Living requires an interdisciplinary effort in numerous fields among the business, computing, economics, engineering, humanities, mathematics and statistics, policy, science, and social science disciplines to advance a sustainable, usable, and healthy society. The Smart Living signature area is one of four signature areas that are part of S&T’s aggressive strategic plan to hire 100 faculty, adding more breadth and depth to our world-class programs. New hires may start in Fall 2017, Spring 2018, or Fall 2018.

Highly qualified, motivated faculty members in various disciplines would join the university at a pivotal moment in its 146 year history to assist us in raising our visibility. The university has an ambitious strategic plan strongly supported by the University of Missouri System, and a decade of growth in its enrollments, research expenditures, scholarly activity, and overall academic quality. In rising to the challenge, the university is halfway through a plan to hire 100 new faculty members by 2020 — growing the faculty by 20 percent. Part of this bold, ambitious plan includes employing transformative and focused hiring in four interdisciplinary signature areas, including Smart Living [http://research.mst.edu/signatureareas/smartliving](http://research.mst.edu/signatureareas/smartliving). Representative faculty interests in Smart Living can be found at [https://isc.mst.edu](https://isc.mst.edu) under Intelligent Cyber-Physical Systems.

New faculty will build upon and add new dimensions to the existing strengths at Missouri S&T. The positions are broadly defined. New hires must be able to contribute to the Smart Living vision from various perspectives, including secure and private decision-making, smart technologies for business, smart grid, smart buildings, smart transportation, smart environment, leadership, usability, and governance and policy issues. A Ph.D. is required.

Candidates interested in Mathematics and Statistics as their home department should have a Ph.D. with doctoral research in statistics or applied dynamical systems with an emphasis on stochastic modeling and data analysis. The candidate must show evidence of strong interests in, and the capability for, developing cutting-edge methodology, theory, and computational tools for solving massive, high-dimensional, and complex data intensive problems. Those with skills and experience in the application of mathematics or statistics in the modeling of complex systems, extracting knowledge and providing insights into mechanisms underlying noisy high-dimensional data, and making causal inference will be highly desirable. Training and experience in the use of data visualization tools for high-dimensional data will be a plus. While establishing a successful collaboration with computer, behavioral, and social scientists working on the smart living initiative, the ideal candidate will be able to contribute to establishing a new Big Data analytic paradigm that offers mathematically/statistically optimal yet practical solutions to the challenges posed by massive, high dimensional and high throughput (high frequency) data.

Interested applicants should submit an electronic application to Missouri S&T Human Resources at [http://hr.mst.edu/careers/academic/](http://hr.mst.edu/careers/academic/) (select Job ID #21770). Applications must include:

- A cover letter.
- A current curriculum vitae.

[http://research.mst.edu/signatureareas/smartliving](http://research.mst.edu/signatureareas/smartliving)
• A one-page statement of research interests and experience.
• A one-page statement of teaching interests and experience.
• A one-page statement detailing plans to create an interdisciplinary research program around smart living. This plan should describe interactions with existing campus groups and include an explanation of fit with one or more of the clusters described below.
• The three statements should collectively demonstrate that the applicant is cognizant of challenges related to diversity, equity, and inclusion in academic environments, and has plans for addressing these challenges.
• Complete contact information for five references.

All reference materials must include reference number 67782. Application materials that do not include the position reference number will not be processed. Hard copy applications are not accepted. Acceptable electronic formats include PDF and Word. Review of applications will begin on January 5, 2017 and applications will be accepted and reviewed until the positions are filled.