ECE Faculty Open Rank Position in RF/Electro-Magnetics Area
[apply for job ID 44509 at https://info.umkc.edu/hr/careers/academic-positions/**]**

To sustain its recent exceptional growth in strategic areas of national and international interest, UMKC has decided to launch a cluster hiring initiative within the Division of Energy, Matter and Systems (EMS). The EMS Division includes the Faculties of Electrical and Computer Engineering (ECE), Mechanical Engineering (ME), Chemistry (CHEM), and Physics & Astronomy (P&A). As part of this cluster hiring, the EMS Division is seeking future leaders in their fields for one (1) tenure-track/tenured faculty positions in RF & Electromagnetics under the Faculty of ECE at the Assistant, Associate, or Full Professor level, starting in Fall 2023.
Areas of interest for the RF & Electromagnetics Position: We encourage candidates with experimental experience and interest in all areas of RF & Electromagnetics to apply with particular emphasis on: RF Integrated Circuits (RFIC), Microwave/RF Components Design and Fabrication/Integration; Metamaterials and Metasurfaces; Terahertz Science and Components; Applied Electromagnetics in Wireless Communication, Radar, and Antennas; Reconfigurable Intelligent Surfaces; and Electromagnetic Compatibility and Interference. Successful applicants will have access to the state of the art electromagnetic and RF facilities at the SSE and the Missouri Institute of defense and Energy (MIDE). These facilities include state of the art antenna fabrication, antenna characterization, and high-power electromagnetic (HPEM) capabilities.
About the Faculty of ECE and the EMS Division: The Faculty of Electrical and Computer Engineering (ECE) under the Division of Energy, Matter and Systems (EMS) of the School of Science and Engineering (SSE) at the University of Missouri–Kansas City (UMKC) has undergone exciting growth in recent years. The Faculty of ECE currently holds the record of the highest active research grants per tenure-system faculty on the UMKC Campus. In addition to individual single-PI grants and projects, the Faculties of ECE has many collaborative grants and multidisciplinary projects. The Faculty of ECE has been instrumental behind the establishment and continued success of the Missouri Institute of Defense and Energy (MIDE), which has become one of the most successful platforms in the entire University of Missouri System in terms of sponsored research and academia-industry-government agency collaboration. MIDE is founded on bridging fundamental physics with applied engineering to solve longstanding challenges in the defense, energy, and related commercial sectors. As of 2021, MIDE has secured $50M in externally awarded grants and contracts. In 2015, MIDE was presented with the R&D100 award for a defense technology that led to two small businesses and two licensed patents. Two MIDE faculty received the Intel Outstanding Researcher award for their work on next-generation transistors.

The Faculty of ECE also has collaborative projects with the School of Pharmacy, School of Medicine, School of Dentistry, and other STEM and non-STEM units across the campus and beyond. The Faculty of ECE is the home to the NSF IUCRC Center of Big Learning (CBL), which focuses on deep learning acceleration, model compression, image and video compression, remote sensing, and vision. The interdisciplinary and multi-campus collaboration activities have created an open, collaborative research and education platform. Examples include NIH and NSF funded research projects in AI/Machine Learning for Virtual Surgery, Bioinformatics and more with the Schools of Medicine, Dentistry, Pharmacy, and Nursing as well as St Luke's Medical Center, Children's Mercy Research Institute, and Stowers Institute for Medical Research.

The SSE recently added a new 58000 sq. ft. state-of-the-art facility at the cost of $40 million to support multidisciplinary education, research, and economic development initiatives. Some of the key components of this new facility are NextGen Data Science and Analytics Innovation Center (dSAIC), Augmented and Virtual Reality Lab, Robotics Lab, Motion Capture Lab, UAV & Drone Lab, Innovation Studio & 3D Printing Lab, High-Performance Computing Lab, and an Anechoic Chamber. In addition to the BS (ABET-accredited), MS, and Ph.D. programs, the Faculty of ECE is playing key roles in several new interdisciplinary degree programs in Biomedical Engineering and Cybersecurity.

The candidates must have a Ph.D. in Electrical and Computer Engineering or a closely related discipline. The successful candidates are expected to: (1) develop and sustain an extramurally funded research program; (2) have a strong commitment to teaching courses in the department's undergraduate and graduate programs; (3) engage in departmental, school, or university services appropriate to the position; and (4) advance the goals and strategic plan of UMKC. To be considered, apply online on the UMKC online job posting page https://info.umkc.edu/hr/careers/academic-positions/ and use position ID 44509

Applicants should compile all application materials in one PDF file (not to exceed 8 MB), including a cover letter highlighting qualifications, a curriculum vitae, a research statement, a teaching statement (including teaching experience), and contact information of three references. Evaluation of applications will commence on January 15, 2023, and continue until the positions are filled.

UMKC is in the heart of Kansas City, a world-class computing and engineering hub home to companies such as Cerner, Ericsson, IBM, SS&C, Garmin, and Honeywell (defense contracts) that provide enriching educational partnerships for SSE students and faculty.

UMKC is **an Equal Opportunity/Access/Affirmative Action/Pro Disabled & Veteran Employer.**