

INTERDISCIPLINARY Ph.D. PROGRAM

University of Missouri-Kansas City

School of Graduate Studies

Discipline-Specific Information: **Electrical & Computer Engineering**

Doctoral research in electrical and computer engineering. Digital signal processing, computer engineering, chip design, neural networks, biometrics, bio-medical imaging.

Discipline-specific admissions requirements

PhD applicants should have a GPA of 3.5 or above and GRE quantitative percentile in the mid-80's or higher. Most applicants have an MS in Electrical/Computer Engineering but in exceptional cases, we carefully consider applicants with just baccalaureate in Electrical/Computer Engineering, or graduate degrees in related fields. It is expected that the applicants already have at least upper division undergraduate level core courses in a typical electrical or computer engineering program. All applications will receive careful and diligent consideration. Our admission decision is based on looking at the whole student and his/her experience (more than the numbers), and the willingness of a faculty to be the interim advisor.

The TOEFL, with a score of 213 or above (550 in the old system), is required for international applicants whose native language is not English.

Suggested compatible co-disciplines

Telecommunications & Computer Networking, Computer Science & Informatics, Mathematics, Engineering, Physics.

Application review and timetable

Application packets for doctoral study in Electrical & Computer Engineering can be requested from the Graduate Programs Office (<http://www.umkc.edu/sgs>) or International Student Affairs Office (<http://www.umkc.edu/isao>). We encourage prospective applicants to download the application form directly from <http://www.umkc.edu/admissions/idx-0101app.html>, or use the on-line application. The deadline for applicants requesting financial support should be received before February 1 for Fall applicants. All applications require complete transcripts, GRE scores (and TOEFL for international applicants), a personal narrative (why wanting to pursue PhD), and three letters of recommendation.

Support available

Only a selected number of newly admitted students receives teaching or research assistantship awards prior to their arrival on campus. However, currently, *all* full-time doctoral students (in good academic standing) receive financial support as graduate teaching or research assistants. Students are also eligible to compete for a wide range of additional campus-wide full fellowships and complementing support awards.

Doctoral faculty with current research interests

We have excellent faculty who are active in research. Faculty have very strong publications records, are funded by NSF, DARPA, and industry.

Reza Derakhshani, Assistant Professor (Ph.D., West Virginia University). Computational intelligence with applications in biomedical signal processing and biometrics

Deb Chatterjee, Associate Professor (Ph.D., University of Kansas). Computational Electromagnetics, Antenna Theory and R.F. propagation modeling.

Ghulam Chaudhry, Associate Professor (Ph.D., Wayne State University). Computer Engineering, Chip Design, Computer Architecture

Jerome Knopp, Associate Professor (Ph.D., University of Texas at Austin). Digital Signal Processing, Optical Systems.

Khosrow Sohraby, Curators' Professor (Ph.D., University of Toronto). Design and Analysis of High Speed Computer and Communications Networks, Traffic Management and Analysis, Wireless and Mobile Communications.

Yu-Ping Wang, Assistant Professor (Ph.D., Xi'an Jiaotong University, China), bio-medical imaging, genomic signal processing, bioinformatics.

Chuanjun "Chris" Zhang, Assistant Professor (Ph.D., University of California -Riverside), Embedded computer system architecture, VLSI chip and system design, Low power circuits and architecture, Hardware/software codesign, Computer Aided Design (CAD).

The following faculty member has secondary affiliations in this discipline: Cory Beard (computer networking)

For more information or to schedule a campus visit with faculty in this discipline, contact:

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