This leadership profile is intended to provide information about the University of Kentucky and the position of Dean of the College of Engineering. It is designed to assist qualified individuals in assessing their interest.
About the position

Position summary
The University of Kentucky is seeking a dynamic leader to serve as the next dean of the College of Engineering. The dean will cultivate innovation in education and research and build upon the college's extensive growth. Partnering with college and university leadership, the dean will formulate and implement strategies to promote cutting-edge research that will contribute to a global society and will prepare our students to be thriving engineers who are sought after by the world's top organizations.

Role of the dean
The dean must exhibit passion, creativity and a commitment to excellence. The College of Engineering is on a steady growth trajectory and has a bold plan to achieve even greater heights. The next dean must inspire the vision to vigorously pursue that goal by:

- Providing open and inclusive leadership to partner with and inspire faculty, staff, and students to elevate the College of Engineering to heightened levels of success.
- Cultivating elite academic and research programs that yield exceptional outcomes.
- Inspiring innovative thinking about new ways to deliver an engineering education and allocate faculty resources to ensure student success.
- Working collaboratively throughout the college to expand internationally recognized research across multiple disciplines.
- Attracting, recruiting, and retaining top faculty, staff, and students.
- Communicating and working collegially across disciplines to foster collaboration while uniting the college around common goals.
- Increasing our student pipeline to employers who will actively seek our students for internship and co-op programs, as well as graduates for employment.
- Conveying a compelling vision for the college as well as articulating the success and priorities to alumni and other strategic partners to garner support for the college's research, scholarly, educational, service and fundraising goals.
- Working with university leadership and the Office of Philanthropy to set strategic and aggressive goals to meet the college’s most critical needs and exceed past fundraising successes.
- Fostering a highly inclusive environment, one that values and leverages the benefits of diverse perspectives.
**Candidate profile**

**Required education and experience**
- PhD in an engineering field or computer science
- A record of strong academic leadership as well as research, education, scholarship, and service commensurate with appointment as professor with tenure in an area of specialization offered by the college

**Expertise**
- Evidence of creating and implementing a vision to ensure student success and advance research programs
- Proven understanding of the complexity of a large engineering college and the ability to adapt academic programs to respond to a dynamic environment
- Ability to attract, develop, promote, and retain world-class faculty, staff, and students
- Passion for articulating the college’s mission and strategy to gain support and financial resources from alumni and corporate partners
- Ability to build relationships throughout the university as well as with external partners to foster innovative and mutually beneficial opportunities
- Desire to foster transparent communication within the college
- Willingness to make difficult decisions through the lens of the changing landscape of higher education
- Ability to see the big picture to ensure the college’s and university’s ongoing success
- Dedicated commitment to diversity, inclusion, and equity
About the college

College at a glance
Supported by 175 faculty and 158 staff members, enrollment in the College of Engineering has experienced an 83 percent growth over the past 10 years, bringing the enrollment to nearly 4,000 students. The diverse student population allows for a rich and broad educational experience. The college also contains eight academic units, an extension campus, and multiple research institutes and centers that promote multidisciplinary research within the college and with other colleges across the university. As enrollment continues to rise, the next dean will take over a highly respected college with the challenges and opportunities that come with growth.

Students
Current enrollment: 3,875
Undergraduate enrollment: 3,390
Graduate enrollment: 485
Fall 2016 cohort first-year retention rate: 87.8%
Female enrollment: 19.9%
Under-represented minority enrollment: 10.1%
First-generation college student enrollment: 14.5%
2016-17 baccalaureate degrees awarded: 631
2016-17 master's degrees awarded: 68
2016-17 doctoral degrees awarded: 36

Academics
Academic departments: 8
• Biomedical Engineering
• Biosystems Engineering
• Chemical & Materials Engineering
• Civil Engineering
• Computer Science
• Electrical & Computer Engineering
• Mechanical Engineering
• Mining Engineering
Undergraduate degree programs: 9
Graduate degree programs: 10
Undergraduate certificate programs: 7
Graduate certificate programs: 7
Undergraduate scholars programs: 3

Faculty and staff
College staff: 158
Tenured or tenure-track faculty members: 156
Non-tenure-track faculty members: 17
Research title series faculty members: 2

Research
2017 active research projects: $48 million
Research centers, institutes and consortia: 11
• Center for Aluminum Technology
• Center for Nanoscale Science and Engineering
• Center for Visualization and Virtual Environments
• Electron Microscopy Center
• Environmental Research and Training Laboratory
• Institute of Research for Technology Development
• Institute for Sustainable Manufacturing
• Kentucky Transportation Center
• Power and Energy Institute of Kentucky
• Unmanned Systems Research Consortium
• Vibro-Acoustics Consortium

Endowment
Endowment: 5 percent of the total university endowment, equaling $70 million
About the college

Mission
The college's mission is to provide education, research and service in a scholarly environment in a way that:
  • Prepares our students for successful professional careers;
  • Addresses the changing needs of our other constituents; and
  • Responds to the technological challenges facing the Commonwealth and the nation.

Vision
The University of Kentucky College of Engineering will be internationally recognized for educating students to meet the global engineering challenges of the 21st century, for conducting pioneering research for the advancement of our society, and for serving the needs of the citizens of Kentucky and the nation.

Values
We support the values of the university, and in particular we value:
  • Academic excellence and freedom.
  • Assessment and continuous improvement of our programs/processes.
  • Success of our students and seeking to know them personally.
  • Professional development of our students and engineering practitioners.
  • The personal and professional development of our faculty and staff.
  • Diversity among our students, faculty and staff.
  • Being a collaborative part of the University of Kentucky.

First-Year Engineering Program
At the heart of the college’s strategic plan is student success. The innovative First-Year Engineering Program allows students to take engineering classes from day one. Traditionally, students spent their first year taking calculus, physics, chemistry, and other courses. But studies show students in first-year engineering programs perform better in their upper-level classes and are more likely to graduate with an engineering or computer science degree.
Co-operative Education Program and internships

Classroom instruction is vital to preparing students for a career in engineering, but employers also want to know UK engineering students can apply their knowledge in real-world settings. The college recommends three alternating semester co-op terms. Students gain experience with Toyota, GE Aviation, Ashland Inc., NASA, and numerous other companies. Students earn an average of $19.80 per hour during their co-op rotation and have an average starting salary of $61,245 after graduation.

Student life

Engineering students make up 600 of the 740 residents of Woodland Glen III, a residence hall that opened in 2015. The Engineering Residential College Living Learning Program is ideal for incoming students who want to balance academic with community involvement. The program allows students to meet with industry representatives, interact with college faculty and deans, participate in study sessions and enjoy other educational opportunities. Each student is assigned an upper-level engineering student as a mentor.

The new $3.5 million James and Gay Hardymon Center for Student Success is home to resources to help students reach new heights. The center's resources include:

- Engineering Career Development Group
- Elbert C. Ray eStudio/Tutoring
- Study spaces
- Academic advising

For graduate students, the Graduate School offers development opportunities, including resources and activities for teaching assistants and the Preparing Future Faculty Program. The College of Engineering has several organizations in which graduate students can be involved. These include:

- Biomedical Engineering Society
- Materials and Chemical Engineering Graduate Student Association
- Mechanical Engineering Graduate Student Association

These efforts focused on student success aim to enable enrollment growth through retention.
About the college

Outreach
The college devotes a significant amount of time to connecting with Kentucky communities. Through events such as the annual Engineers Day (E-Day) open house, as well as popular programs such as Girls in Engineering, Math and Science (GEMS) and the Women in Engineering Summer Workshop Series, the college promotes STEM education and engineering as an enticing career path.

Research and scholarship
The College of Engineering is home to internationally recognized research programs. UK is one of only eight universities in the country with a major medical center featuring six health colleges and the full spectrum of academic colleges on one contiguous campus. This close proximity to such a large range of programs is an incubator for inter- and transdisciplinary initiatives. Discoveries from these collaborations allow our researchers to address the needs of Kentucky, our nation and the world.

Research areas of strategic importance to the college include:
- Advanced materials and components
- Computational systems and hardware
- Energy, manufacturing, and sustainability
- Health applications
- Infrastructure systems

Our affiliated centers include:
- Advanced Science and Technology Commercialization Center
- Center for Applied Energy Research
- Center of Membrane Sciences
- Kentucky Water Resources Research Institute
- Center for Computational Sciences
- Institute for Biomedical Informatics

New Automotive Production Engineering Program at UK
In addition, the College of Engineering recently announced a partnership with Toyota Motor Engineering North America. Toyota is investing $1.25 million to create an Undergraduate Automotive Production Engineering Certificate, housed in the UK Institute of Research for Technology Development. Kentucky is the nation’s third-largest auto-producing state. The new certificate program will introduce UK students to automotive manufacturing core processes and give students access to Toyota’s state-of-the-art laboratory and world-class engineers. At the same time, Toyota engineers will be able to work closely with faculty and students to develop new ideas for ongoing engineering challenges.
Located in the vibrant city of Lexington, the University of Kentucky is a public, land-grand institution that plays a critical leadership role in promoting diversity, inclusion, economic development, and human well-being. The campus is home to 30,000 students, 2,400 faculty, and 13,000 full-time staff. The university is one of just eight in the country with a major academic health center and a full spectrum of academic colleges and professional schools on one contiguous campus. As such, UK is an incubator for multidisciplinary research. These collaborations allow researchers to address the rapidly changing needs of a global society.

The state's flagship institution consists of 18 academic and professional colleges, where students can choose from more than 200 majors and degree programs at the undergraduate and graduate levels. Supporting the scholarly community is a comprehensive research library system made up of nine facilities, including the world-class William T. Young Library.

UK's student body is diverse, representing more than 100 countries, every state in the nation and all 120 Kentucky counties. UK students compete successfully for prestigious scholarships and awards, such as the Fulbright, Astronaut, Truman, Goldwater, Marshall, Udall, and Gates programs.

The university recently engaged in an effort to revitalize its student living and learning spaces. UK's public-private partnership with EdR has yielded more than 6,500 modern beds and 202 active learning spaces in 13 buildings. Over the last five years, UK has approved the construction of more than $2.1 billion in infrastructure to bolster the institution's long-term health and success.

UK received $331 million in research grants and contract awards in 2017, including a $14.9 million increase in federal awards. The university's dynamic research enterprise encompasses traditional scholarship, the humanities, health care, and emerging fields in technology. UK is one of few institutions to have a trifecta of award funding from the National Institutes of Health for a Clinical and Translational Science Award, an Alzheimer's Disease Research Center, and a National Cancer Institute-designated Cancer Center.
About Lexington

The City of Lexington is a great place to live, work, and study. It recently appeared on USA Today's list of the top cities to live in. With a population of roughly 300,000, Lexington offers both the warmth – and lower cost of living – of a small city, along with some of the amenities you would enjoy in a larger city, including the arts, cultural events, and a thriving dining scene.

Lexington is also home to some great sporting traditions, including horse racing, Wildcat basketball and football, and a minor league baseball team, the Lexington Legends. In the spring and fall, spend a beautiful afternoon watching Thoroughbred racing at Keeneland Race Course with your friends and family. Our region also boasts some amazing parks and natural wonders, including Red River Gorge, for hiking and exploring.

Lexington's food scene is filled with Kentucky originals, southern classics, and creative fusion. Lexintonians benefit from a great local food environment. If you're visiting Kentucky for the first time, you should try some of our specialties – hot browns, bourbon balls, benedictine sandwiches, Derby pie, burgoo, and many more.

The city also boasts a rich cultural diversity. Lexington is home to people who speak more than 154 languages, and who currently make up about 20 percent of its population. Unprecedented growth of the international population reached nearly 300 percent in just this past decade. International investment, international students, and international academics and visitors from around the world bring a wealth of economic and cultural diversity to Lexington.
Confidential inquiries, nominations, and applications are invited. Review of applications will continue until the position is filled. All applications must be submitted online at ukjobs.uky.edu.

Application materials should include the following:
- Curriculum vitae
- Cover letter summarizing relevant experience in leadership, administration, and academics
- Statement of your philosophy of administrative leadership and the educational and research enterprise, including your vision for the UK College of Engineering (upload under Specific Request 1)
- Names, addresses, email addresses, and telephone numbers of four references (References will not be contacted without candidate approval; upload under Specific Request 2)

Application review will begin in mid-December and will continue until the position is filled. For more information about the position, please contact Mary Beth Bracken at 859-257-3348 or via email at marybeth.bracken@uky.edu.

The University of Kentucky is committed to a diverse and inclusive workforce by ensuring all our students, faculty, and staff work in an environment of openness and acceptance. We strive to foster a community where people of all backgrounds, identities, and perspectives can feel secure and welcome. We also value the well-being of each of our employees and are dedicated to creating a healthy place to work, learn, and live. In the interest of maintaining a safe and healthy environment for our students, employees, patients, and visitors, the University of Kentucky is a Tobacco & Drug Free campus.

As an Equal Opportunity Employer, we strongly encourage veterans, individuals with disabilities, women, and all minorities to consider our employment opportunities.