Opportunity and Challenge Profile

Marquette University
Search for the OPUS Dean
OPUS College of Engineering
Milwaukee, Wisconsin

COLLEGE OF ENGINEERING – WHO WE ARE

The Marquette OPUS College of Engineering is known for its leadership in balancing the education of the whole person – *Cura Personalis* – with world-class research improving the quality of life.

Our academic programs begin with top-flight teachers – the fuel for quality instruction. Faculty will continue to introduce better ways to educate our students.

We reward faculty who understand and embody how teaching and research go hand-in-hand, and whose research accomplishments are respected by their peers and industry. Our research activity and support continues to increase, most recently with the $30 million Legacy Gift commitment to foster our research and teaching endeavors.

Outstanding faculty and excellent research attract gifted students. Since the financial needs of many students outstrip their available resources, we pursue endowed scholarships to increase the level of support we can offer our students. Our students thrive in learning environments in which they can hone their skills to meet the demands placed on today’s engineers. We aggressively pursue capital campaigns that provide our students with modern facilities, laboratories, and technologies. We receive generous support from our benefactors to endow academic chairs and named faculty fellowships that continue to attract high caliber faculty to our college community.

As we teach our students to build computers, highways, robots, or artificial hearts, we also act to build their character and infuse moral values that develop their desire to be men and women dedicated to serving others. We will never lose sight that this is the mark and quality of a Marquette Engineer.
THE OPPORTUNITY

The Deanship for the College is a position endowed by a gift from the OPUS Corporation. The successful candidate for this unique opening will have the opportunity to implement a vision for game-changing engineering education, research, and cooperation with industry at our engineering college. Exceptional applicants will aspire to be local civic leaders as well as leaders in the national and international community. Applicants should desire to work closely with university colleagues to prepare men and women for others while partnering with government and industry. These attributes are aligned with Marquette’s rich history of collaboration, teaching and research excellence.

ESSENTIAL FUNCTIONS OF THE DEAN

The OPUS Dean is the Chief Academic Officer of the OPUS College of Engineering, providing leadership to promote teaching, research and service to faculty and students as well as community outreach in support of the College and University mission. The Dean is responsible for developing and articulating the college vision, coordinating strategic planning, directing all administrative structures and functions, fundraising and building alumni relations, and determining overall direction of the college. Reporting to the Provost, the Dean is part of the University Leadership Council.

Duties and responsibilities include:

- Refine, develop, implement, and continue to deploy the College’s strategic plan of transforming students, transforming faculty and curriculum, transforming facilities, and promoting opportunities to increase research activity.
- Promote faculty development in teaching and research.
- Strengthen College faculty through recruitment, hiring, and the promotion and tenure process.
- Oversee curriculum development and assessment.
- Lead the College’s fundraising initiatives.
- Build and strengthen strategic relationships with the community, alumni, industry, and other higher education institutions.
- Work closely and maintain ongoing interaction with the Graduate School.
- Work closely with leadership in the College (department chairs and college executive committee) to support the College and University mission.
- Work closely with the College’s National Advisory Council.

CANDIDATE PROFESSIONAL EXPERIENCE/QUALIFICATIONS NEEDED

- An earned doctorate and a record of teaching and research meriting tenure as a full professor in a department within the OPUS College of Engineering are required.
- Appreciation for, and a commitment to, the Catholic, Jesuit higher education vision.
- Excellent listening, decision-making, and consensus-building skills.
- Ability to articulate and communicate compellingly, across the University and to external audiences, the value of an education in engineering and the vision of the OPUS College of Engineering.
• Curricular and programmatic experience at the undergraduate and graduate levels; experience with doctoral education.
• A demonstrated record and ongoing ability to work effectively with diverse groups and individuals across boundaries and constituencies being served by the College.
• Administrative experience in engineering higher education, including fiscal management and strategic planning, such as a department chairmanship, deanship, or commensurate experience.
• Fundraising ability and commitment to academic priorities.
• Able to incorporate new information, higher education trends and developments, and ongoing learning into effectively leading the College.
• Business-related budgeting experience and exposure to industry, including technology and innovation, are preferred.

COLLEGE OF ENGINEERING INFORMATION

Marquette University OPUS College of Engineering currently enrolls 1225 undergraduates and 266 graduate students. It is ranked number one in the nation among Jesuit colleges of engineering (http://www.marquette.edu/engineering/).

Since 1908, the Marquette University OPUS College of Engineering has been uniquely blending professional engineering preparation with a liberal arts education to provide the world with well-balanced leaders in their profession. Co-developing expertise in engineering with communications and reasoning skills is absolutely critical to engaging, hearing, and reacting to the voice of the stakeholder in ways that are both successful and sustaining.

The College offers six undergraduate degrees in 10 majors through four departments: Biomedical Engineering; Civil, Construction and Environmental Engineering; Electrical and Computer Engineering; and Mechanical Engineering. Six degree programs are accredited. Marquette also offers a wide range of graduate and doctoral programs.

The College partners with more than 100 leading engineering and technology firms to support its cooperative education (co-op) and internship program. Our proud co-op tradition extends back to the founding of the program in 1919 as one of the first such programs in the country. The Construction Engineering and Management curriculum requires that the student complete the co-op program; for all other engineering majors the program is optional.

MARQUETTE UNIVERSITY

Marquette University is a Catholic, Jesuit institution founded in 1881. Located on a 90 acre urban campus, the university serves more than 8,100 undergraduate and 3,600 graduate and professional students through 12 colleges and schools: Helen Way Klingler College of Arts and Sciences; College of Business Administration; Graduate School of Management; J. William and Mary Diederich College of Communication; School of Dentistry; College of Education; OPUS College of Engineering;
Graduate School; College of Health Sciences; Law School; College of Nursing; and College of Professional Studies. There are 1,205 (full-time/part-time) faculty and 1,561 (full-time/part-time) staff. The budget for the current year is $398 million.

The Princeton Review named Marquette University one of the country’s "Best 379 Colleges" and included the university as one of seven Wisconsin institutions of higher education on the "2014 Guide to 322 Green Colleges," produced in collaboration with the Center for Green Schools at the U.S. Green Building Council. Additionally, Kiplinger’s Personal Finance listed Marquette University among its "Best Values in Private Colleges for 2014." The University ranks 76th among the top national universities in the 2015 edition of America’s Best Colleges published by U.S. News & World Report. Marquette University was the 10th higher education institution bestowed the Changemaker Campus title by the Ashoka Institute, a leader in social entrepreneurship — the practice of applying sustainable business models to solve social problems.

MISSION

Marquette University is a Catholic, Jesuit University with a commitment to faith, excellence, leadership and service. Marquette’s mission is the search for truth, the discovery and sharing of knowledge, the fostering of personal and professional excellence, the promotion of a life of faith, and the development of leadership expressed in service to others.

VISION

Marquette University aspires to be, and to be recognized, among the most innovative and accomplished Catholic and Jesuit universities in the world, promoting the greater glory of God and the well-being of humankind. We must reach beyond traditional academic boundaries and embrace new and collaborative methods of teaching, learning, research and service in an inclusive environment that supports all of our members in reaching their fullest potential. Marquette graduates will be problem-solvers and agents for change in a complex world, so in the spirit of St. Ignatius and Jacques Marquette they are ready in every way “to go and set the world on fire.”

COMPENSATION

The successful candidate will receive a compensation package that is competitive and commensurate with her or his experience.

Marquette University is an equal opportunity employer; women and minority candidates are encouraged to apply.
SEARCH FIRM CONTACT

Please send cover letter and CV or nominations, in confidence, to:
Martin Baker
Baker and Associates LLC
4799 Olde Towne Parkway, Suite 202
Marietta, GA 30068
336-721-9100
mbaker@baasearch.com

MARQUETTE UNIVERSITY CONTACT
Dr. Daniel Zitomer
Search Committee Chair
Professor of Civil, Construction and Environmental Engineering
Marquette University
P.O. Box 1881
Milwaukee, WI 53201
Daniel.zitomer@marquette.edu

ADDITIONAL INFORMATION ON THE COLLEGE OF ENGINEERING:

COLLEGE OF ENGINEERING MISSION

Marquette’s OPUS College of Engineering's mission is to prepare students for successful
careers based on strong ethical and moral foundations, advance the state of the art in
engineering, serve the professional and technical communities, and contribute to our global
society. We are building a workforce of professional engineers for the 21st century — men
and women who will provide world leadership in a new era of engineering
(http://www.marquette.edu/engineering/).

LEARNING AND TEACHING

- The College of Engineering ensures the availability of required courses to graduate
  with a BS in four years.
- All engineering courses are taught by regular faculty with full or part-time faculty
  appointments rather than teaching assistants.
- Undergraduate minors are available in many areas including business, mathematics,
  computer science, physics, and areas of engineering other than the student's major.
  An Engineering Ethics and Values minor is also available.
- The average course credit load for day students is 16.5 credit hours.

RESEARCH AND EDUCATION COLLABORATIONS

Marquette University has enjoyed strong research collaborations and joint educational
programs with the Medical College of Wisconsin (MCW) since the late 1960's, and is
currently a member of the Clinical Translational Science Institute (CTSI) of Southeast
Wisconsin, which represents a unique and transformative collaboration among MCW, Froedtert Hospital, Children’s Hospital of Wisconsin, the VA Medical Center, the Blood Research Institute, Marquette University, the University of Wisconsin-Milwaukee, and Milwaukee School of Engineering.

MCW and affiliated hospitals offer excellent research and clinical facilities for Marquette faculty and students to engage in internationally recognized, multidisciplinary research that is highly funded through the National Institutes of Health, the National Science Foundation, the Department of Education and private foundations. Joint degree programs between Marquette University and MCW include graduate programs in healthcare technologies management, functional imaging and bioinformatics. More than 40 MCW faculty serve as adjunct professors in the OPUS College of Engineering. Likewise, engineering faculty also have appointments at MCW.

College faculty also collaborate on research programs and offer student research experiences with the Rehabilitation Institute of Chicago and the Shriner’s Hospital of Chicago. These research partnerships support Marquette’s Falk Neurorehabilitation Engineering Research Center, the Orthopedic Rehabilitation Engineering Center and the Keck Center for Microfocal Angiography.

Marquette University is a member institution in the National Science Foundation Industry/University Collaborative Research Center (I/UCRC) on Water Equipment and Policy (http://www4.uwm.edu/wep/about/). The Center brings together water industries and universities to perform precompetitive research to develop the next generation of water technologies and inform policy makers regarding recent advances. In addition, Marquette University is a member of the Water Council which joins the region’s existing water companies and research clusters together and has constructed a water research and business accelerator center. This Global Water Center building houses water-related research facilities for Marquette and other universities, existing water-related companies and accelerator space for new, emerging water-related companies. The facility is a venue for attracting and creating new businesses in the water industry, and aims to address key local and global water-quality, technology, research and policy issues.

Marquette University is a member of the Midwest Energy Research Consortium (M-WERC) which is one of the largest clusters of: 1) energy, power and control companies, 2) educational and research institutions, and 3) key public and industrial community stakeholders. It acts as a catalyst for commercial and intellectual growth in the region, through technology innovation, advanced research, market development, information sharing, workforce development, and strategic collaboration. It houses the Energy Innovation Center (EIC) which brings together industry and academic scientists, engineers and business leaders to conduct joint research, jump-start innovative technologies, transition prototype products to the commercial stage, and nurture startup companies (http://www.m-werc.org).

Marquette University is also establishing a center in advanced manufacturing focused on assembly automation. The Center for Flexible Assembly Systems (CFAS) is focused on
transforming domestic manufacturing from a labor-intensive, skills-based activity to a value-focused, knowledge-based activity. Research into assembly automation is particularly important because assembly is difficult and/or expensive to automate and domestic manual assembly is often prohibitively expensive (assembly is typically estimated to be 25% of total cost). The next-generation assembly equipment, components, and systems developed at CFAS will make agile assembly systems feasible, reliable, and affordable, reducing the cost of manufacturing, particularly for low-lot-size production typical in small and medium size enterprises.

For a complete list of Marquette University centers, see http://www.marquette.edu/research/centers.php.

ENGINEERING ENROLLMENT MANAGEMENT AND OUTREACH

The OPUS College of Engineering Outreach Program at Marquette University actively engages K-12 students to promote enrollment in Science, Technology, Engineering and Mathematics (STEM) disciplines. The program offers students between the ages of 6 to 17 opportunities to participate in a wide range of educational activities throughout the summer and academic year. Programming is designed to inform students about engineering, providing experiences that motivate them to enroll in engineering degree programs. A sample of program topics includes:

- Robotics
- Bridges and Structures
- Energy efficiency
- Electronics and sensors
- Mechanical systems
- Water quality
- Health and human performance (i.e., biomedical engineering)
- Computer engineering
- Sustainable environment

The OPUS College of Engineering Outreach Program recruits students into STEM disciplines. Program participation rates quadrupled during the past three years, reflecting the growth in program offerings. Open to any pre-university student, the Engineering Outreach Program recruits students through partnerships with more than 16 middle and high schools in the Milwaukee area. During the past academic year, we impacted more than 1,600 students, including more than 800 who participated in one of 47 individual “engineering academies” that offered exciting and educational hands-on activities. To learn more about the OPUS College of Engineering Outreach Program, please visit the following: http://www.marquette.edu/engineering/academies.shtml
ABOUT THE MILWAUKEE AREA

Marquette is located on a 93-acre campus in the near-downtown Milwaukee neighborhood of University Hill. Lake Michigan is one mile east of campus. Milwaukee is the largest city in Wisconsin and the 28th largest city in the United States. It has one of the highest per capita student populations in North America. The population is approximately 600,000 and approximately 1.8 million people live in the metropolitan area. The City of Milwaukee is highly diverse, with about 39 percent African-American, and 15 percent Hispanic/Latino citizens.

Milwaukee is one of America’s great cities, combining a dynamic urban community with a rich cultural heritage. There is also accessibility to parks, rivers, and other outdoor recreation. It is a popular venue for sailing, fishing, windsurfing, kite-surfing, ethnic dining, and cultural festivals. Milwaukee’s Summerfest is the world’s largest musical festival. The city is recognized for its art museums, Harley-Davidson Museum, fine dining and hotels, professional sports, gardens and parks, and Milwaukee County Zoo. These opportunities, combined with strong public and private schools, make Milwaukee a family-friendly city. Milwaukee also has an opera company, ballet, symphony, and several live theatre companies that range from Broadway musicals, Shakespeare and the classics to smaller, regional productions. Milwaukee also hosts professional baseball, arena football, indoor soccer, hockey, and basketball teams. It has excellent public transportation. To learn more, see www.onmilwaukee.com