



Leadership Profile

Founding Chair

Joint Department of Biomedical Engineering

Marquette University and

The Medical College of Wisconsin

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Leaders Connecting Leaders

August, 2016

This Leadership Profile is intended to provide information about Marquette University and the Medical College of Wisconsin and the position of Founding Chair of the Joint Department of Biomedical Engineering. It is designed to assist qualified individuals in assessing their interest in this position.

The Opportunity Overview

Marquette University (MU) and the Medical College of Wisconsin (MCW) have created a Joint Department of Biomedical Engineering and now invite applications and nominations for the position of Founding Chairperson. The new department offers an exciting and unique opportunity for the founding chair to forge the engineering research and education expertise of MU with the medical research, technology and clinical expertise of MCW to create an inclusive research and education model that promotes discovery and innovation and trains the next generation of engineers, scientists and physicians.

MU is a comprehensive university with a tradition of excellence in engineering and research collaboration with MCW. The Biomedical Engineering Program was established in 1968 and became a Department in 1990. The Department promoted growth of research and education with recognized programs in orthopaedics, rehabilitation engineering, medical imaging, cardiopulmonary modeling, device development, informatics and computational biology. MCW is a national leader in medical research and ranks in the top third of US medical schools with \$158M in extramural research funding. Areas of research strength include genomics, imaging, cancer, cardiovascular research, neurosciences and injury research. It has 1500 faculty and 1250 medical and graduate students. The long term, productive collaboration between MU and MCW had previously culminated in the formation of joint degree programs in Functional Imaging (PhD), Healthcare Technology Management (MS) and Bioinformatics (MS). The new joint department offers BS, MS, ME and PhD degrees, currently has over 350 undergraduate students and 50 graduate students and in 7 years is projected to enroll more than 523 students across all degrees with the greatest growth in Masters and PhD disciplines.

The vision is to develop an internationally recognized, highly ranked department that leverages the existing strengths of MU and MCW and the resources of the two institutions to invest in growth and excellence in research and education. The Founding Chair will have a unique opportunity to build this new department and leverage the combined resources of two distinguished institutions, including the recruitment of **10 tenure-track faculty members** to expand the department into strategic programmatic areas within biomedical engineering. MU and MCW have committed space, research infrastructure and competitive recruitment packages to the joint department.

MU and MCW seek an outstanding, dynamic leader with a distinguished scholarly record in research and education, an externally funded research program and national visibility in biomedical engineering consistent with appointment to the rank of Professor. Applicants with experience leading an academic unit in a university or medical center or an industrial unit, a record of advancing innovation and institutional-wide collaboration, appreciation of and commitment to diversity, inclusion and shared governance and the ability to enhance student learning for the 21st century are encouraged to apply. More information about the MU-MCW Department of Biomedical Engineering and a full position description can be found at: <http://mcw.marquette.edu/biomedical-engineering/>.

To make a nomination, recommendation or submit an application, please see the section entitled "Procedure for Candidacy" in this document.

The Role of the Chair

The Founding Chair will have an extraordinary and unprecedented opportunity to build with substantial resources a Joint Department of Biomedical Engineering between two distinguished institutions committed to research, education and service to public health. This unique leadership position is strongly supported at the highest levels of both institutions, by President Michael Lovell of Marquette University and by President John Raymond of The Medical College of Wisconsin.

The Chair will serve as the chief academic and administrative leader for the department and as the principal liaison between Marquette University and MCW. She or he will advance the department's intellectual engagement and accomplishment, provide strategic vision and operational excellence for all aspects of the academic, educational, research and outreach programs. The Chair will foster an environment that supports the department's faculty, students, staff, alumni and broader communities of stakeholders and constituencies.

In pursuing these goals, the BME Chair will work collaboratively with the leadership at both institutions, including the respective deans, senior leaders, department heads, center and institute directors, and other appropriate colleagues and partners. Broadly speaking, the responsibilities of the Chair include strategic planning and implementation; recruitment, retention and development of faculty and personnel; financial budgeting and resource allocation; development and maintenance of space, facilities and instrumentation; advocacy and engagement of various strategic partners to garner resources for the department to accomplish its mission of education, research and service. To fulfill these responsibilities, the Chair will assemble a departmental leadership team, leveraging the talents and resources of both institutions.

As part of an extensive planning process by working groups that involved faculty and administrative participation from both institutions, resources have been allocated for an initial leadership infrastructure that is comprised of the following positions, all of which currently report to the Acting Chair:

Direct reports

- Vice Chair, Academic Affairs
- Vice Chair, Clinical & Research Affairs
- Director, Graduate Programs
- Director, Undergraduate Programs
- Assistant Vice Chair

This investment in a starting infrastructure, framed to help the Founding Chair meet the above goals, may be adjusted based on the leadership and vision of the new chair.

Opportunities and Expectations for Leadership

Biomedical engineering represents an exciting and expanding field that is developing rapidly in response to the convergence of many factors such as advances in computational, diagnostic, monitoring and interventional technologies, along with the development of novel compounds, materials and therapeutic delivery methods. It is a multidisciplinary approach with unique influence, integrating education, research, patient care, industry and the marketplace. It is where ideas of integrated medical and engineering research are translated into real solutions designed to enhance clinical outcomes for patients. The joint department was established in recognition that together both institutions could leverage their combined expertise to create a

new model for advancing biomedical engineering. It was also motivated by the increased demand for undergraduate and graduate education, the need for advancing bioengineering research frontiers and the changing landscape of healthcare delivery to increase patient safety and improve clinical outcomes.

Both institutions have highly collaborative, dedicated and collegial cultures, and are eager to build the department. While much of the initial planning and cooperative agreements have been established by inter-institutional working groups, there remain administrative and leadership objectives and challenges that the Founding Chair will have the opportunity to manage and guide including the department's growth and evolution. The BME Chair will engage colleagues, students and stakeholders to address both great opportunities and challenges, including but not limited to the following.

Strategic vision, planning and implementation

The Founding BME Chair will have a special opportunity to develop a collective vision, culture, and strategy for the department. The BME Chair will not only serve as the principal liaison between both institutions to manage associations across each administrative platform, but will also serve as the lead facilitator to build an *esprit de corps* for the department and to leverage the distinct strengths of each organization, from engineering education and technology development to biomedical research and clinical practice. He or she will lead by inspiring a cohesive unit that can conduct path-breaking research while training the next generation of engineers, scientists and physicians.

As a new department, the possibilities and potential for innovative growth and excellence are vast. The Founding BME Chair will work across disciplinary and institutional boundaries to provide strategic leadership and vision in collaboration with faculty, staff, students, and other key internal and external stakeholders. The BME Chair will lead the department through strategic planning and implementation processes that respond to the combined overarching goals and objectives of both institutions. It is anticipated that the department will both leverage its existing strengths (e.g., imaging, molecular systems, visualization, rehabilitation, etc.) and also build in areas that capitalize upon strategic synergies and values across institutions, partner organizations and commercial industry. Implementing and executing these plans in a coordinated, timely and measurable fashion will be a key administrative goal and indicator of leadership success.

Faculty recruitment, development and promotion

As the chief academic officer, the BME Chair will be afforded a generous and unprecedented opportunity to build the department through the recruitment of ten new faculty members with startup packages over the first five years, and possibly more if additional resources can be secured through external philanthropic development. In collaboration with BME faculty and in coordination with strategic plans, the BME Chair will oversee the recruitment of distinguished research and teaching faculty at the assistant, associate and full professor levels. Faculty will be recruited, promoted and tenured according to the hiring policies and procedures of the appropriate appointing institution, although there will also be a process set forth for faculty from each institution to participate in the promotion and tenure process. A major motivation for creating the joint department is to enhance the overarching research enterprises for both institutions; accordingly, a major objective of the BME Chair will be to recruit, mentor and develop an exceptional and diverse cohort of biomedical investigators who demonstrate research success and potential in securing extramural funding, especially from NIH, NSF and other appropriate funding agencies, foundations and industry partners.

Education, interdisciplinary research and innovation

A central charge of the next Chair will be to promote and support the continued improvement of undergraduate and graduate programs, especially during the current times when funding support for graduate fellowships and research programs has become increasingly competitive. The department is positioned to grow its student enrollments steadily over the next years, and in particular the Master of Science and Engineering programs. The undergraduate degrees will continue to be granted by Marquette University and the graduate degrees will be granted by the Joint BME Department under the auspices of both parent institutions.

The BME Chair will ensure the highest levels of teaching excellence, education and training at both institutions and will work creatively to explore additional funding sources to support the educational mission through scholarships, fellowships and internships. The Chair will oversee ABET accrediting requirements and procedures, will help advance novel programs for biomedical education, and will share in developing technology-enhanced pedagogies to improve student learning and success.

The Chair will serve as the leading spokesperson to drive fundamental and interdisciplinary research by advocating on behalf of the department with funding agencies, industry partners and foundations.

The BME Chair will foster a spirit of innovation and entrepreneurship through the translation of research into real-world applications and solutions. This will include exploring commercialization opportunities (i.e., IP licensing and technology transfer), enhancing partnerships with industry and other for profit partners, and encouraging the entrepreneurial instincts and interests of faculty and students.

Financial management and operational excellence

The BME Chair will be responsible for ensuring the overall fiscal health and operational sustainability of the department. While extensive planning and cooperative agreements for finance and administration have been established for the joint department, the BME Chair will need to remain attentive to both institutions so that these cooperative plans and accords remain adhered to, maintained and appropriately developed as the department evolves and new opportunities and initiatives emerge. While functioning together as one team, the Chair will oversee the human, capital and physical resources on each employment platform, and will allocate judiciously the resources, space and facilities.

External engagement and philanthropic development

The BME Chair's interactions will span a wide range of important internal and external stakeholders and constituencies, including the deans, faculty, funding agencies, industry partners, civic leaders, donors, alumni, friends and healthcare leaders. Accordingly, the Chair will serve as the chief advocate to champion the joint BME department regionally, nationally, and internationally.

In this capacity, the Chair will be expected to work with the development staff to spearhead advancement and fundraising activities and will be recognized as the lead spokesperson to represent the department's expertise in biomedical engineering. The BME Chair will also be responsible for stewarding and managing new relationships with potential partners, such as industry entities, philanthropic organizations and individual donors to enhance and diversify

revenue streams that support research and education, and provide mutually beneficial training and collaborative opportunities for faculty investigators and students. Wisconsin is fortunate to have a strong and growing life science and biotechnology industry that includes imaging and medical device companies. The Founding Chair will be expected to enhance relationships with these enterprises and stimulate innovation and economic growth in the region and beyond.

Promote diversity and inclusion

Marquette University and MCW have a strong commitment to promoting diversity in all of its forms and promoting a culture of inclusion, openness and fairness. The BME Chair will collaborate to develop strategies to recruit more women and underrepresented minority students, faculty and staff. The Chair will support an environment that is welcoming to students, faculty, and staff without regard to race, class, ethnicity, gender identity, political perspective, nationality, sexual orientation, disability, religion, or other non-academic characteristics.

Professional Qualities and Characteristics

Marquette and MCW seek a recognized leader with a distinguished scholarly record worthy of appointment as a full professor; experience leading an appropriate academic unit in a university (or relevant setting); demonstrated acumen in budgetary and financial affairs; a record of leading successful innovation and campus-wide collaboration; skill or interest in development and fundraising; experience making and implementing decisions in a timely, collaborative, and coordinated manner; appreciation of and commitment to diversity, inclusion and shared governance; and the ability to enhance student learning for the 21st century.

Requisite professional attributes, experiences and qualifications include:

- PhD, MD, MD/PhD or equivalent terminal degree.
- A sustained record of peer reviewed scholarship in biomedical engineering research that qualifies for a tenured, senior level faculty appointment.
- A sustained record of peer reviewed research funding from national funding agencies, industry partners and/or foundations, particularly NIH (e.g., R, P, T series) and NSF.
- Demonstrated successful leadership and budgetary management skills.
- Proven background in faculty recruitment, mentoring and development.
- Experience in and a commitment to exemplary teaching, graduate education, training, and interdisciplinary collaboration.
- Demonstrated ability to work in and promote a diverse environment.
- Understanding of the diversity and breadth of biomedical research.
- Excellent communication skills and the ability to build and lead teams.
- Record of collaboration and consensus building and to develop strong ties and connections with external constituencies and individuals across disciplines.

Preferred qualifications:

- Outstanding skills and passion for external development.

- Translational research experience.
- Administrative experience.
- Experience and familiarity working across university, academic health center and clinical settings.
- A history of industry collaborations.
- Familiarity with ABET accrediting requirements and procedures.
- A people person with a sense of humor and desire to help others succeed.

Procedure for Candidacy

Applications, nominations and expressions of interest should include a CV and cover letter describing professional background, qualifications and vision for the department and should be sent via email to Marquette-MCW-BMEChair@wittkieffer.com. The position will remain open until filled, but candidate materials should be received as soon as possible but no later than October 7, 2016 to ensure full consideration. The recruitment will be conducted in confidence until finalists are selected at which time professional references will be requested and contacted.

The Joint Department of Biomedical Engineering

The Marquette-MCW Department of Biomedical Engineering provides an extraordinary research and education platform for the next generation of engineers, scientists and physicians. Marquette University and MCW have a long history of collaboration, dating back to when MCW was known as the Marquette University School of Medicine. In the 1960s, while they were still a single institution, the biomedical engineering program at Marquette was launched as one of the first in the country and was known as a pioneer in developing solutions for clinical applications.

More recently, Marquette and MCW faculty members have worked together on numerous transformational research discoveries in rehabilitation medicine, orthopaedics, trauma and cardiovascular and pulmonary physiology. The organizations have partnered in offering joint master's degrees in bioinformatics and healthcare technologies management, as well as a joint Ph.D. program in functional imaging. This long, successful history of collaboration is a primary reason why the BME department is destined for success.

The BME department will become the regional epicenter for translating biomedical research into solutions for patient care. Students will work in state-of-the-art labs at both campuses, as well as the region's leading hospitals and clinics for hands-on education addressing real-world biomedical engineering challenges and opportunities.

The most exciting aspect of the new BME department for students is the opportunity to advance their learning, problem-solving skills and research experience through exposure to both engineering leaders and faculty physicians who are working on solutions to challenges in the clinic. Additionally, students will have opportunities to work on projects with industry partners to gain a greater understanding of the R&D process from a corporate perspective. These experiences will provide students with an even broader range of career opportunities post-

graduation. As a natural extension of this idea, the partnership will expand the range of internship opportunities for undergraduates.

Undergraduate and Graduate Programs

The BME department provides excellence in education, discovering and disseminating new knowledge and developing students into tomorrow's leaders and problem solvers. In order to prepare students for functioning effectively in a medically or biologically oriented problem-solving environment – which includes the need to communicate with life scientists, physicians and other healthcare providers; collect and analyze experimental or clinical data; understand the capabilities and limitations of sophisticated instrumentation; and understand the principles of design – a solid foundation in the mathematical, physical and life sciences is essential. That is why the biomedical engineering undergraduate curriculum is interdisciplinary in nature, incorporating courses in biology, chemistry, physics, mathematics, computer science and engineering.

The BME department offers students the ability to participate in diverse and clinically relevant research areas such as: imaging, medical device innovation, computational sciences, orthopedics and rehabilitation, neurosystems and neurorehabilitation, cardiovascular and pulmonary physiology, proteomics, genomics, computational biology, bioinformatics, molecular imaging, cell and tissue engineering, and drug discovery.

Students in the bachelor of science degree programs will be located primarily at Marquette with additional opportunities for research and clinical exposure at MCW. More information can be found at: <http://mcw.marquette.edu/biomedical-engineering/undergraduate.php>

Students in BME graduate programs will be trained in advanced problem-solving skills and research experiences through exposure to both engineering leaders and faculty physicians who are working on solutions to the challenges currently faced in the clinic. Additionally, students will have opportunities to work on projects with industry partners, allowing students to gain a greater understanding of the R&D process from a corporate perspective. MCW clinical partner locations include Froedtert Hospital, Children's Hospital of Wisconsin, the Blood Center of Wisconsin and the Clement J. Zablocki VA Medical Center. More information can be found at: <http://mcw.marquette.edu/biomedical-engineering/graduate.php>

Degrees available:

- bachelor of science degree programs with concentrations in biocomputing, bioelectronics or biomechanics
- 5-Year bachelor's/master's degree program in biomedical engineering
- master of science degree programs in biomedical engineering and healthcare technologies management
- master of engineering degree program in biomedical engineering
- doctoral degree program in biomedical engineering
- doctoral degree program in biomedical engineering with a specialization in functional imaging

Research

The BME department conducts research and provides state-of-the-art engineering training in areas such as: functional imaging, medical device innovation, computational sciences,

orthopaedics and rehabilitation, neurosystems and neurorehabilitation, cardiovascular and pulmonary physiology, proteomics, genomics, analytics and informatics, molecular imaging, cell and tissue engineering, drug discovery, biomechanics, biomaterials and nanotechnology, prosthetics, and global health. Current research themes include:

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| • Cardiovascular and Pulmonary | • Computational Biology and Systems Biology |
| • Imaging | • Molecular Systems & Modeling |
| • Medical Device Innovation | • Orthopaedics and Orthopaedic Rehabilitation |
| • Analytics, Informatics and Software Engineering | • Neurosystems and Neurorehabilitation |

More information about BME department's research, clinical settings, grant development, centers and laboratories can be found at: <http://mcw.marquette.edu/biomedical-engineering/research.php>

Industry Collaborations

Advisory Board

The new BME department has a diverse group of advisory board members who are leading industry experts and committed to the Biomedical Engineering Program. Their insights and collective feedback are relied upon when setting goals, modifying the program and determining best practices. A listing of the members can be found at:

<http://mcw.marquette.edu/biomedical-engineering/advisory-board.php>

Partnering with industry for the future of healthcare

To further biomedical engineering to benefit patients and healthcare, the BME department fosters collaboration with many industry partners, including GE Healthcare, Medtronic, Fresenius and many others. These collaborations include the following:

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| • Hiring undergraduate students for paid internships cooperative employment opportunities | • Working with senior design and freshman groups on innovative medical devices |
| • Joining forces on translational research | • Developing curricula that responds to industry needs |

Industry partners value working with the BME department to advance research for their healthcare products and services. They also seek to find biomedical engineering students and graduates to join their workforces, first as interns and, eventually, as valued members of their organizations, driving innovation and future product development.

Faculty and Staff

The BME department is comprised of nearly twenty faculty and staff members, many of whom are internationally-recognized biomedical engineers, researchers, and scientists. The profiles and areas of research focus of these renowned faculty found at:

<http://mcw.marquette.edu/biomedical-engineering/faculty-staff.php>

Marquette University

Marquette University is a Catholic and Jesuit university located near the heart of downtown Milwaukee, Wisconsin, that offers a comprehensive range of majors in 11 nationally and internationally recognized colleges and schools.

Marquette enrolls more than 8,300 undergraduate and 3,200 graduate and professional students, with nearly all states and 70 countries represented. Undergraduate programs include 87 majors and 81 minors, and pre-professional programs in dentistry, law and medicine. Postgraduate programs include 64 doctoral and master's degree programs, 24 graduate certificate programs, and a School of Dentistry and Law School. There are more than 1,200 faculty members with nearly 700 who are full time.

Opus College of Engineering

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. The college is building a workforce of professional engineers for the 21st century — men and women who will provide world leadership in a new era of engineering.

Vision: We are world-class engineers who will lead bold, innovative change to serve the world in the Jesuit tradition.

Mission: Our diverse community of engineering scholars collaborates in transformative learning environments to lead change for the benefit of humanity. We prepare students for fulfilling careers by providing a strong technical and ethical foundation.

We ignite curiosity, encourage student-centered learning, and foster critical thinking by:

- Educating engineering leaders who thrive in innovative, entrepreneurial, and dynamic environments.
- Exploring and discovering new knowledge, putting research in action.
- Engaging professional and technical communities worldwide.

Departments

The departments of the Opus College of Engineering include:

- Biomedical Engineering
- Civil, Construction and Environmental Engineering
- Electrical and Computer Engineering
- Mechanical Engineering

More information about the Opus College of Engineering can be found at:
<http://www.marquette.edu/engineering/>

The Medical College of Wisconsin

MCW began as the Wisconsin College of Physicians and Surgeons, founded on May 20, 1893. On January 14, 1913, the Wisconsin College of Physicians and Surgeons and the Milwaukee

Medical College merged to become the Marquette University School of Medicine. On September 30, 1967, Marquette University, due to financial constraints, terminated its sponsorship of the medical school. Since then, the school has continued as a private, freestanding institution. The name was changed on October 14, 1970, to the Medical College of Wisconsin. MCW has more than 16,000 living alumni. MCW is financially secure with a sound balance sheet and annual operating margins typically exceeding 3.5%. Total operating revenues are exceeded \$1 billion last year and MCW has \$1.9 billion in assets. Extramural awards and gifts to MCW total approximately \$160 million, in addition to \$120 million in affiliate support from Froedtert Hospital and Children's Hospital of Wisconsin (CHW) and other partners and approximately \$550 million in revenues from Medical College Physicians (MCP) and Children's Specialty Group (CSG), the two clinical practices.

MCW has approximately 5,290 faculty and staff (approximately 4,790 full-time equivalents). Faculty is approximately 1,620 full-time and part-time. Staff is approximately 3,025 full-time/335 part-time/310 project and limited-term. Approximately 4,475 faculty and staff work on the Milwaukee Regional Medical Center (MRMC) campus, and over 815 work at greater than 30 other health care facilities in Eastern and Central Wisconsin. More than 1,800 physicians from the community serve as volunteer faculty. MCW is the eighth largest private employer in the metro-Milwaukee area.

MCW has recently broken ground to build a new academic office building on the main campus which is scheduled for completion by the fall of 2017. The six story, 225,000 sq. ft building will bring physicians together in closer proximity to research, educational and community engagement initiatives creating a modern workplace fostering innovation, collaboration and collegiality.

Mission

We are a distinguished leader and innovator in the education and development of the next generation of physicians, scientists, pharmacists and health professionals; we discover and translate new knowledge in the biomedical and health sciences; we provide cutting-edge, collaborative patient care of the highest quality; and we improve the health of the communities we serve.

Patient Care Mission

MCW is the largest physician group practice in Wisconsin and the 14th largest physician group practice in the U.S. Approximately 1,500 Medical College of Wisconsin physicians and approximately 500 nurse practitioners, physician assistants, and other healthcare practitioners care for more than 525,000 patients of all ages annually at Children's Hospital of Wisconsin, Froedtert Hospital, Zablocki VA Medical Center and many other hospitals and clinics in Eastern Wisconsin, representing more than 2.3 million patient visits annually. 462 MCW faculty physicians are listed in Best Doctors in America®, more than any other group practice or institution in Wisconsin.

MCW physician and practitioners provide:

- Adult patient care at five health systems, 10 hospitals and 38 clinics throughout Wisconsin through the Medical College Physicians group practice.
- Pediatric specialty care at more than 30 specialty clinic locations through Children's Specialty Group, a joint venture with Children's Hospital of Wisconsin.

- Primary and specialty care at 25 health centers and clinics through the Froedtert & the Medical College of Wisconsin Community Physicians, a joint clinical practice group with Froedtert Health.

Clinical and Translational Science Institute of Southeastern Wisconsin

In 2015 a five-year, \$20 million Clinical and Translational Science Award from the National Institutes of Health was awarded to renew funding for the Clinical and Translational Science Institute of Southeastern Wisconsin (CTSI), a consortium of eight regional organizations whose mission is to advance the health of the community through research and discovery.

The CTSI, which was founded in 2010, comprises the BloodCenter of Wisconsin, Children's Hospital of Wisconsin, Clement Zablocki VA Medical Center, Froedtert Hospital, Marquette University, MCW, Milwaukee School of Engineering, and the University of Wisconsin – Milwaukee. The composition of the CTSI is unique nationally because of the engagement of academic institutions not otherwise affiliated with MCW. Using innovative mechanisms, CTSI members work to translate research discoveries more quickly into preventive, diagnostic and therapeutic interventions for patients. Consortium members share resources, technology, knowledge and expertise to work towards those goals. The CTSI research portfolio includes more than 185 studies, with more than 47 collaborative research studies underway. The CTSI is a borderless, synergistic biomedical research enterprise that is accelerating the translation of research discoveries into new and improved medical treatments. More information about the CTSI can be found at: <https://ctsi.mcw.edu/about/>

Office of Technology Development

The mission of the MCW Office of Technology Development (OTD) is to support and educate MCW faculty, postdoctoral fellows, interns, students and staff. The OTD facilitates the transfer of technology generated from research and clinical practices into commercial products that benefit MCW, the community and the public. The OTD engages inventors, as well as internal and external stakeholders to bring Patents to Patients®. More information about the OTD can be found at: <http://www.mcw.edu/Technology-Development.htm>

Community Profile

Milwaukee, Wisconsin

Metro Milwaukee is located 90 miles north of Chicago on Lake Michigan's western shore. It is an affordable, comfortable place to live, conduct business and raise a family; big enough to be exciting and uncongested enough to get around in easily. It is safe, friendly and clean. Milwaukee's many neighborhoods have much charm, and its beautiful parks are world famous. Its downtown lakefront is busy, noted for its Old World charm and modern buildings.



There is a full range of arts, culture, recreation and professional sports to enjoy in Milwaukee.

The city features world-class restaurants, bars, theaters, concert venues and the Milwaukee Art Museum, which includes architect Santiago Calatrava's eye-catching, first American building. Each summer, Milwaukee hosts Summerfest, the world's largest music festival as well as a plethora of ethnic festivals. Recreational activities in Milwaukee include boating, sailing, beach volleyball and fishing and Wisconsin's many state parks offer opportunities for scenic hiking, boating and bicycling. Wisconsin is also home to professional sports teams which include the Bucks (NBA), Brewers (MLB), Packers (NFL), Wave (MISL) and Admirals (AHL).

With a population of 604,477, Milwaukee is the nation's 23rd largest city. The seven counties making up the metro area for Milwaukee in southeastern Wisconsin are Kenosha, Milwaukee, Ozaukee, Racine, Walworth, Waukesha and Washington. The greater Milwaukee metro area has more than 1.5 million people, making it the nation's 39th largest metro area. By area, the city of Milwaukee covers 96 square miles; Milwaukee County 242 square miles; and the metro area 1,460 square miles.

Milwaukee and Wisconsin have a long tradition of educational excellence at all levels. The metro area's 51 public school districts enroll more than 238,000 students and produce more than 17,000 high school graduates annually. In addition, students in private schools in metro Milwaukee total nearly 59,000 and generate 2,600 high school graduates per year.

Wisconsin is a recognized leader in post-secondary education. Milwaukee's 20 institutions of higher learning enroll over 97,600 students and grant more than 17,000 degrees and certificates annually. Metro Milwaukee is home to 14 colleges and universities (bachelor's degree or higher) and six, two-year colleges (associate's degree and technical certificate institutions). Wisconsin's public vocational education system, the nation's first and considered one of its finest, maintains three area colleges. Additionally, Milwaukee is in close proximity with Chicago and Madison, offering opportunities for collaboration with outstanding educational institutions in those cities.

<http://www.mmac.org/>

<http://www.visitmilwaukee.org/>

Appendix: Search Committee Listing

- **Ann Nattinger**, MD, MPH, Committee Co-Chair, Senior Associate Dean, Research, Lady Riders Breast Cancer Research Professor, Professor, Medicine (GIM), Director, Center for Patient Care and Outcomes Research, Medical College of Wisconsin
- **Gerald Harris**, PhD, PE, Committee Co-Chair, Professor, Biomedical Engineering, Director, Orthopaedic Research & Rehabilitation Engineering Center (OREC), Marquette University
- **Scott Beardsley**, PhD, Associate Professor, Biomedical Engineering, Marquette University
- **William Campbell**, PhD, Florence Williams Professor of Pharmacology & Toxicology, Chair, Pharmacology & Toxicology, Medical College of Wisconsin
- **Taly Gilat-Schmidt**, PhD, Associate Professor, Biomedical Engineering, Marquette University
- **John LaDisa, Jr.**, PhD, Associate Professor, Biomedical Engineering, Director of CV T.E.C. Lab, Director, Marquette University Visualization Lab, Marquette University
- **Ravi Misra**, PhD, Dean, Graduate School of Biomedical Sciences, Professor, Biochemistry, Medical College of Wisconsin
- **Frank Pintar**, PhD, Professor, Neurosurgery, Medical College of Wisconsin, Adjunct Professor, Biomedical Engineering, Marquette University, Director, Neuroscience Research Laboratories, Clement J. Zablocki VA Medical Center
- **Kathleen Schmainda**, PhD, Robert C. Olson, MD, Professor in Radiology, Professor, Radiology & Biophysics, Vice-Chair, Research (Imaging Research), Medical College of Wisconsin
- **Brian Schmit**, PhD, Professor, Biomedical Engineering, Co-Director of Falk Center for Neurorehabilitation Engineering Research Center, Director, Graduate Studies, Marquette University
- **Mary Shimoyama**, PhD, Associate Professor, Biomedical Engineering, Medical College of Wisconsin
- **Barbara Silver-Thorn**, PhD, Associate Professor, Biomedical Engineering & Mechanical Engineering, Marquette University
- **Aoy Tomita-Mitchell**, PhD, Assistant Professor, Surgery (Cardiothoracic Pediatrics)
- **Jack Winters**, PhD, Professor, Biomedical Engineering, Co-Director, Falk Neurorehabilitation Engineering Research Center, Marquette University

The material presented in this leadership profile should be relied on for informational purposes only. This material has been copied, compiled, or quoted in part from Marquette University and Medical College of Wisconsin documents and personal interviews and is believed to be reliable. While every effort has been made to ensure the accuracy of this information, the original source documents and factual situations govern.

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