THE OPPORTUNITY

The University of Michigan Concussion Center invites nominations and applications for two tenure-track faculty positions to work at one of the world's preeminent research institutions. As one of the highest-ranked public universities in the nation, the Concussion Center is an international leader in research, clinical care, and education.

- One faculty position is open rank (assistant, associate or full professor)
- One faculty position is at the assistant professor rank

*based on the candidate pool, it is possible both positions may either be filled at the associate/full level OR assistant level

In 2018, the University of Michigan Concussion Center was awarded foundational support through the $150M Biosciences Initiative to establish itself as a global concussion leader. The center integrates our Research, Clinical, and Outreach & Engagement Cores to create novel solutions that advance concussion knowledge and protocols.

We are seeking passionate concussion researchers to help the center by developing and sharing groundbreaking ideas that translate laboratory, clinic, and community observations into knowledge products that reduce concussion risk and improve outcomes in those affected by the injury. All research domains related to concussion will be considered, including candidates that focus on social and cultural health disparities in concussion prevention, identification, and management.

Founded in 1817, the University of Michigan has a long and distinguished history as one of the first public universities in the nation. It is one of only two public institutions consistently ranked among the nation's top ten universities. With more than $1.7 billion in research expenditures annually, the university has the second largest research expenditure among all universities in the nation. It is one of only two public institutions consistently ranked among the nation's top ten universities. With more than $1.7 billion in research expenditures annually, the university has the second largest research expenditure among all universities in the nation. The university has an annual general fund budget of more than $2.8 billion and an endowment valued at more than $17 billion. Adjacent to central campus, Michigan Medicine, with its hospitals, clinics, and satellite offices, Medical School, and School of Nursing, is one of the finest health systems in the country. The university's prominent athletic programs and outstanding academic programs in medicine, engineering, and other related disciplines provide ideal collaborative opportunities for center faculty.

REQUIRED QUALIFICATIONS

Candidates must have the following qualifications:

- PhD, MD, or similar terminal degree
- Demonstrated (associate/ full professor) or potential (assistant professor) for nationally and internationally recognized research accomplishments and extramural funding
- Depending on the field, evidence of teaching excellence

All schools, colleges, and units on the U-M Ann Arbor campus may be potential home units for successful applicants. Primary school and departmental affiliation(s) will be determined by the applicant’s qualifications and preferences, and by the relevance of the applicant’s research program to school and departmental strategic initiatives. Clinical time for qualified practitioners will be optional based on candidate interest and/or unit requirements. We welcome candidates who are scientists in any area of concussion research, complementary to the existing expertise at Michigan. Candidates with an interest in social and cultural health disparities in concussion prevention, identification, and management are encouraged to apply. For further information about the U-M Concussion Center, please visit concussion.umich.edu.

EQUAL EMPLOYMENT OPPORTUNITY STATEMENT

Women and underrepresented minorities are strongly encouraged to apply. The University of Michigan seeks to recruit and retain a diverse workforce as a reflection of our commitment to maintain the excellence of the University and to offer our students richly varied disciplines, perspectives, and ways of knowing and learning. The University of Michigan is supportive of the needs of dual-career couples and is an Equal Opportunity/Affirmative Action Employer.

ABOUT THE CONCUSSION CENTER

Our mission is to maximize societal and individual health through the relentless pursuit of concussion knowledge. We strive to be the recognized leader in concussion research and clinical practice for a positive impact on patient health.

The U-M Concussion Center maximizes its impact by facilitating the development and sharing of groundbreaking ideas that translate laboratory, clinic, and community observations into interventions that reduce concussion risk and improve outcomes in those affected by the injury.

The center created Synergies of Excellence that uniquely integrate our Research, Clinical, and Outreach & Engagement Cores to create integrated solutions that advance concussion knowledge and protocols.

- The Research Core functions as the center's foundation, supporting and integrating outstanding University of Michigan faculty to promote innovative research collaborations to address pressing challenges.
- The Clinical Core exists symbiotically with the Research Core by identifying clinically relevant questions, serving as an access point to patient populations for novel research, and translating cutting-edge research findings to maximize patient care.
- The Outreach & Engagement Core helps fulfill the mission of the center and university by translating research findings to relevant stakeholders (e.g., patients, clinical providers, legislatures, sport organizations)
and providing educational opportunities (e.g., conferences, written and web content).

Our success is based on:

- Fostering cutting-edge science by connecting and developing partners internal and external to the university
- Applying innovative translational science to patient populations
- Disseminating new information to relevant stakeholders at a local, state, national, and international level

SYNERGIES OF EXCELLENCE

RESEARCH CORE

Functioning as the foundation of the center, the Research Core seeks to expand concussion knowledge across the spectrum from the level of molecules and neurons to patients and populations. Despite all that has been learned about concussion in recent decades, concussion research still remains in its infancy because each question answered leads to new questions not previously considered.

The short- and long-term effect of concussion on the nervous system and an individual’s neurological health are now at the forefront of public concern related to concussion. U-M is a lead institution in the largest concussion study ever conducted, the Concussion, Assessment, Research, and Education (CARE) Consortium Study, which has now enrolled more than 53,000 participants at 30 sites across the U.S. to study the natural history of concussion. Michigan Medicine is involved in the clinical validation of promising biomarkers of traumatic brain injury using data from 18 sites participating in the Transforming Research and Clinical Knowledge in Traumatic Brain Injury (TRACK-TBI) Study. This study has enrolled more than 2,700 participants to examine the effect of concussion and more severe traumatic brain injury on blood biomarkers, neuroimaging results, and clinical outcomes.

The Research Core supports and integrates outstanding University of Michigan faculty to promote innovative research collaborations. Teams of researchers in labs and clinics across the campus are relentlessly working to answer today’s critical questions through cutting-edge, collaborative research ventures and are ready to begin addressing tomorrow’s questions that have not yet been asked.

DIVERSITY, EQUITY, INCLUSION, & JUSTICE

Diversity, equity, inclusion, and justice are at the core of the University of Michigan Concussion Center. We are unwavering in learning and accepting a diverse membership and fostering an inclusive community where everyone feels a sense of belonging. Varied perspectives fuel the innovation that enacts our mission of maximizing individual and societal health.

CLINICAL CORE

Concussion has received increased recognition and concern among clinicians, researchers, military personnel, sport organizations, athletes and parents, and the general population. The center’s clinicians and researchers are working together to tackle this critical problem by sharing their knowledge and expertise.

The center’s Clinical Core focuses on critically important gaps in concussion care, fostering discovery and facilitating the process of translating research into patient care and education.

In their role on the front line of concussion care, center clinicians and clinician scientists are the first to recognize scientific gaps, giving unique insight into the most needed research questions. They are also uniquely positioned to apply new clinical knowledge to patient care to improve patient health and quality of life.

The center partners with Michigan NeuroSport and the PMR Concussion Programs, who are the providers of specialty concussion care to patients at the University of Michigan/Michigan Medicine. Other partners include Michigan Medicine Adult Emergency Department, University of Michigan Athletic Medicine, Michigan Medicine CS Mott Children’s Emergency Department, and University Health Service.

OUTREACH & ENGAGEMENT CORE

The Outreach and Engagement Core helps support the center’s and university’s mission by translating research findings to key stakeholders; ensuring the accessibility and dissemination of scientifically-based center expertise to impact policy and optimize education, prevention, identification, and treatment protocols; and providing learning resources through externally directed platforms.

To develop the next generation of clinicians and researchers, the Outreach and Engagement Core is working with U-M schools, divisions, centers, and institutes to provide opportunities for undergraduate and graduate students, medical residents, post-doctoral fellows, and visiting faculty. The center supports students through educational, training, and mentoring opportunities to tackle the complexity of conducting research in a multidisciplinary setting, establishing a pipeline of future clinical and research concussion experts.
Steven Broglio, PhD, professor of Kinesiology and adjunct professor of Neurology, and Physical Medicine and Rehabilitation. He is the director of the U-M Concussion Center and the NeuroTrauma Research Laboratory where he oversees clinical care, educational outreach, and multi-disciplinary research aimed at fundamental questions on concussion prevention, identification, diagnosis, management, and outcomes.

Andrea Almeida, MD, associate professor in Department of Neurology, co-director of the Michigan NeuroSport Program, and co-clinical associate director for the U-M Concussion Center. She specializes in Sports Neurology with an emphasis on treatment of neurologic injuries in athletes, particularly concussion, as well as the management of neurological disorders in athletes.

James (JT) Eckner, MD, MS, associate professor in the Department of Physical Medicine & Rehabilitation and the associate director of research for the U-M Concussion Center. His research addresses concussion assessment using reaction time; the potential role for neck strengthening as a preventative intervention; concussion biomechanics using body-worn impact sensors; and assessment of the short- and long-term effects of concussion and sport-associated head trauma on neurocognitive health.

Matthew Lorincz, MD, PhD, professor in the Department of Neurology and co-clinical associate director for the U-M Concussion Center. He specializes in Sports Neurology with an emphasis on the treatment of acute concussions and the long-term consequences of concussion, as well as management of neurological disorders in athletes.

Douglas Wiebe, PhD, professor of emergency medicine; director of the Injury Prevention Center; and director for Outreach & Engagement for the U-M Concussion Center. He previously worked as a professor of epidemiology at the University of Pennsylvania’s Perelman School of Medicine, leading multi-institutional injury prevention research projects, including the Ivy League-Big Ten Epidemiology of Concussion Study.

Tina Chen, managing director of the U-M Concussion Center. She oversees the center’s day-to-day operations and is actively involved in supporting strategy development and execution. Prior to joining the center, she mostly oversaw cross-campus initiatives and nurtured stakeholder relationships, both internally and externally, for the Alumni Association of the University of Michigan.

**CENTER PROGRESS**

- 2,500+ research participants
- 8,000+ patients treated for concussion
- 200+ publications
- 8,000+ grants awarded
- #6 EXPANDING RESEARCH
- #1 EXPANDING SUBJECT MATTER EXPERT

**FACULTY COUNCIL**

Members of the faculty council have demonstrated leadership in traumatic brain injury, and specifically concussion research, and play a critical role to convene and represent the faculty voice on center faculty related matters.

**Co-Chairs**

**Frederick Korley, MD, PhD**, associate professor, Department of Emergency Medicine. His research is focused on improving outcomes in traumatic brain injury by identifying and validating blood-based biomarkers for diagnosing traumatic brain injury and monitoring individual patient response to promising therapies.

**Michael Popovich, MD**, clinical assistant professor, Department of Neurology. He is a Sports Neurology fellowship-trained neurologist who provides clinical concussion care in the University of Michigan NeuroSport clinic. He has a number of research interests focused on treatment and recovery after traumatic brain injury.

**Jacob R. Joseph, MD**, clinical assistant professor, Departments of Emergency Medicine and Neurological Surgery. He is a neurosurgeon specializing in the treatment and management of traumatic brain and spine injuries. His research focuses on the biomechanics, diagnosis, and management of brain and spine injuries.

**David Millward, MD, MS**, athletic medical director/head team physician, U-M Athletics. Dr. Millward specializes in vitamin D and bone health in student-athletes, exercise-induced bronchospasm, asthma in athletes, and concussions.

**Douglas Noll, PhD**, Ann and Robert H Lurie professor, Department of Biomechanical Engineering. His group develops magnetic resonance imaging (MRI) technology for mapping the functional organization of the human brain performing specific tasks (known as functional MRI or fMRI).

**Katharine Seagly, PhD**, assistant professor, Department of Physical Medicine and Rehabilitation. Her research interests are primarily in the areas of psychosocial, cognitive and quality of life outcomes following TBI, concussion outcomes, performance validity tests, and improving collaborative rehabilitation treatment.

**Frederick Korley, MD, PhD**, associate professor, School of Kinesiology. Her research involves using neuroimaging and fMRI to study the relationship between brain activity and cognitive functioning in healthy aging.

**Philip Veliz, PhD**, research associate professor, School of Nursing’s Applied Biostatistics Laboratory; associate director of the Sport, Health, and Activity Research and Policy Center. His research primarily involves examining large-scale secondary data sets to assess adolescent substance use, health, and participation in organized sports.

**Eleanor Varangis, PhD**, assistant professor, School of Kinesiology. Her research involves using neuroimaging and fMRI to study the relationship between brain activity and cognitive functioning in healthy aging.

**David Millward, MD, MS**, athletic medical director/head team physician, U-M Athletics. Dr. Millward specializes in vitamin D and bone health in student-athletes, exercise-induced bronchospasm, asthma in athletes, and concussions.
ABOUT THE BIOSCIENCES INITIATIVE

Biological sciences provide a fertile landscape for discovery. One of the U-M’s great advantages in advancing this field is its world-class schools in medicine, dentistry, kinesiology, pharmacy, engineering, environment and sustainability, public health, and nursing in addition to an outstanding academic medical center, the Life Sciences Institute, and the College of Literature, Science, and the Arts large biological sciences departments.

In 2015, the President’s Advisory Panel on the Biosciences recommended that U-M should enhance its efforts to become a magnet for the best biosciences faculty, postdoctoral researchers, graduate, and undergraduate students in the world. The Biosciences Initiative focuses on funding cutting-edge interdisciplinary research, expert faculty hires, collaboration, and postgraduate education across the biosciences at U-M. To date, more than a dozen scientific initiatives have been funded through the BSI.

ABOUT THE UNIVERSITY OF MICHIGAN

The University of Michigan was established in 1817 as the University of Michigania in Detroit and became the first public university in the Northwest Territories. It was renamed the University of Michigan in 1821. In 1837, the same year in which Michigan became a state, the school moved to Ann Arbor, a town that was only 13 years old. When the first classes were taught in 1841, U-M had two professors and seven students. Women were first admitted in 1870. The university has grown to include three campuses, together educating more than 51,000 students annually. U-M observed its bicentennial in 2017, celebrating its heritage of teaching, research, and service and its role as a great public university.

U-M offers best-in-class academics and is one of the pre-eminent research institutions in the world, ranking first in research spending among public universities. During the 2022-2023 academic year, 15 U-M students and 10 scholars received Fulbright grants—making U-M one of the top-producing universities in the nation. The renowned Michigan Medicine is consistently ranked as one of the finest health systems in the country. U-M has a well-deserved reputation for excellence in groundbreaking research, undergraduate and graduate education, and extraordinary faculty, alumni, and students. At the Ann Arbor campus there are 14 schools and colleges, nearly 38,000 faculty and staff members, and more than 44,000 students. U-M has regional campuses located in Flint and Dearborn.

U-M’s current operating budget is $11.3B, generated from state appropriations, tuition, research grants and contracts, Michigan Medicine revenues, gifts, and other sources. The university’s $17.3B endowment is the fourth largest in the country and the largest among public universities.

MISSION STATEMENT

The mission of the University of Michigan is to serve the people of Michigan and the world through pre-eminence in creating, communicating, preserving, and applying knowledge, art, and academic values, and in developing leaders and citizens who will challenge the present and enrich the future.
ACADEMICS
U-M’s leading position in higher education rests on the outstanding quality of its schools and colleges and its internationally recognized departments and programs. The focus on interdisciplinary studies provides great opportunities for students to tailor their academic experiences to their career and life goals. U-M encourages strong partnerships between students and faculty, ranging from the highly honored Undergraduate Research Opportunity Program to prized post-doctoral fellowships.

U-M offers a remarkably broad and rigorous array of graduate and professional degree programs that are among the very best in the country in each field of study. The university attracts outstanding students to graduate study, and prepares them to make lasting contributions to society through successful careers in professions and academic disciplines. The vibrant community of graduate and professional students on campus is highly diverse in citizenship, demographic background, and intellectual perspective.

Michigan faculty members are among the best in the world in their respective disciplines. Although statistics can hardly capture the full scope of faculty activities and accomplishments, a summary of some of their awards and honors provides a glimpse into their successes: 38 members of the National Academy of Sciences, 36 members of the National Academy of Engineering, 71 members of the National Academy of Medicine and 97 members of the American Academy of Arts and Sciences.

In addition, many faculty members have been awarded a MacArthur Foundation Fellowship, Emmy and Grammy awards, National Medal of Art, and countless other honors bestowed by scholarly and professional societies. In 2018, Gérard Mourou, emeritus professor in electrical engineering and computer science, received a Nobel Prize in Physics for “groundbreaking inventions in the field of laser physics.”

RESEARCH
Excellence in research and scholarly activity is a core tenet of U-M’s mission. The broad scope and overall size of the U-M’s research enterprise, along with its emphasis on interdisciplinary approaches, contributes to Michigan’s global standing. National surveys consistently rank the university’s professional schools among the top 10, reflecting a research record of important publications and other contributions to the advancement of scholarship. As such, the faculty attracts generous financial support from the public and private sectors. The federal government is the largest supporter of research at U-M, providing $973M toward the overall research budget of $1.71B for FY2022.

The university envisions that the faculty will make contributions to society not only through research and scholarships, but also through the application of discoveries as innovative products and processes. U-M places a high priority on supporting this activity through the Office of Technology Transfer and the Business Engagement Center.

U-M is noted for its interdisciplinary research initiatives, such as nanoscience and technology, biomedical engineering, and life sciences that involve faculty from many units on campus, including the Medical School, the College of Engineering, and the College of Literature, Science, and the Arts. U-M’s researchers have access to some of the finest computer resources in the nation.

The University Library, one of the most comprehensive research libraries in North America, houses world-renowned collections, provides cutting-edge digital technologies that enhance information access, offers instructional programs for the campus community, and serves as the primary academic publishing enterprise of the university.

An innovative leader in electronic publishing and digital access, the University Library is working to shape the future of libraries through the Hathitrust Digital Library partnership and the Google Books digitization effort.

MICHIGAN MEDICINE
Michigan Medicine, with its hospitals, clinics, and satellite offices, Medical School, and School of Nursing, provides an opportunity to form many cross-collaborative partnerships for concussion research. Currently, the center has established partnerships with U-M Athletic Medicine, Injury Prevention Center, Department of Learning Health Studies, the Depression Center, the Alzheimer’s Disease Center, Michigan Neuroscience Institute, Department of Geriatrics, and over 20 other departments and units across Michigan Medicine.

Health care professionals serve patients from every county in Michigan, as well as other states and countries. Michigan Medicine’s three hospitals and 1,007 beds saw over 2.64M million patients in FY2022. The university also operates 40 outpatient locations with more than 120 clinics, and an extensive home care operation. The level of care delivered annually is extensive: 46,000 hospital stays, 111,000 emergency department visits, 56,000 operations and outpatient procedures, and 1,000 Survival Flight missions.

Michigan Medicine consistently ranks among the best nationally for the care at University Hospital. C.S. Mott Children’s Hospital, Von Voigtlander Women's Hospital, Cardiovascular Center, Rogel Cancer Center, Comprehensive Diabetes Center, Depression Center, Geriatrics Center, Transplant Center, and W.K. Kellogg Eye Center. The U-M Trauma Burn Center holds the highest national certification and is one of the nation’s most experienced burn centers. U-M is also certified by the American College of Surgeons as a Level 1 Trauma Center for adults and children, and has one of only 11 Injury Control Research Centers funded by the Centers for Disease Control & Prevention.

ACCESSIBILITY & AFFORDABILITY
The University of Michigan is recognized nationally for its commitment to a diversity of people and ideas. The academic excellence of the institution rests in the wealth of the university’s students, faculty, and staff and their cultures, backgrounds, and life experiences.
Accessibility and affordability are complementary, and the university works to hold open its doors to students from all socioeconomic backgrounds. The University of Michigan has a longstanding commitment to provide financial aid to undergraduates that meets the full demonstrated need of admitted, in-state students to pay for tuition, room and board, textbooks and incidentals. In 2018, U-M launched the “Go Blue Guarantee,” which pledges the university to provide aid that at a minimum covers four years of tuition for any admitted in-state student whose family income is below $65,000 and with assets less than $50,000.

The central financial aid budget has grown 12% per year over the last decade. Aid packages combine need- and merit-based grants and scholarships, loans, and work study employment. In acknowledgment of real concern over the nation’s rising student loan debt, the university has worked hard to provide students with more and larger grants, which do not need to be repaid, and to reduce their reliance on loans. This includes $228M in grants and scholarships from university funds.

**STUDENT LIFE**

U-M’s rich academic offerings are enhanced by a vast array of campus programs and activities available to all students. There are more than 1,000 student-led clubs and organizations that provide opportunities for service, learning, socializing, and personal growth. Student clubs engage in entrepreneurship, sustainability, the performing arts, activism, cultural pursuits, and religious activities.

U-M was the first university in the country to establish an office for its LGBTQ+ community, and today the Spectrum Center continues that 45-year legacy of inclusion. U-M also was the first in the nation to establish a Department of Recreational Sports, which celebrated its centennial in 2013.

Approximately 8,960 undergraduate students and 2,393 graduate students live in University Housing, which includes 24 residence halls and apartment buildings. The university is nearing completion of a systematic renovation of all of its heritage residence halls, which has created spaces to help transform students’ campus life and enrich U-M’s ability to attract the most intellectually engaged students.

**ARTS & CULTURE**

The University of Michigan offers a panoply of world-class exhibitions, preeminent speakers, performing artists, and outdoor spaces for patrons of all kinds.

U-M students consistently entertain and engage the community with displays of music, art, dance, and theatrical performances. The School of Music, Theatre & Dance, in particular, stages more than 450 concerts, recitals, and stage performances each year. The University Musical Society is considered one of the leading performing arts presenters in North America, making Ann Arbor a destination for artists from throughout the world.

Artistic venues include the intimate Arthur Miller Theatre, the Power Center for the Performing Arts, and venerable Hill Auditorium, which marked its centennial in 2013 and offers superb acoustics. Through the decades, Hill has showcased the finest performers and most distinguished speakers, ranging from Enrico Caruso and Leonard Bernstein to Martin Luther King Jr. and Hillary Clinton. Campus museums include the U-M Museum of Art, Museum of Natural History, the Kelsey Museum of Archaeology, and the Museum of Anthropology. Matthaei Botanical Gardens and Nichols Arboretum offer places of quiet reflection and beauty, with more than 640,000 living graduates, Michigan has one of the largest alumni bodies in the world. Graduates have contributed to every field and profession and include:

- Branch Rickey ’11, who with Jackie Robinson, broke the color barrier in professional baseball
- Gerald R. Ford ’35, 38th president of the US
- Raoul Wallenberg ’35, Swedish diplomat who saved thousands of Hungarian Jews from the Holocaust
- Mike Wallace ’39, HLLD ’87, American journalist
- James Earl Jones ’55, actor
- Valerie Jarrett ’81, senior adviser to former President Barack Obama
- Sanjay Gupta ’90, MD ’93, MDRES ’93, HLDH ’12, CNN chief medical correspondent
- Larry Page ’95, Google co-founder

**FACULTY & STAFF**

The university has an overall work force of nearly 44,000 faculty and staff members, including Michigan Medicine and the Flint and Dearborn regional campuses. The faculty headcount at U-M’s three campuses is 6,200 and the full-time-equivalent (FTE) total was 6,990. Instructional appointments comprise 3,566 FTEs, and another 2,995 FTEs are individuals with clinical, research and other titles who are primarily involved in health care, research, and related scholarly activities.

Staff members play essential roles in sustaining the university’s excellence. Representing an extraordinary range of occupations, U-M’s 16,000 staff members contribute to the efficient and productive operation of nearly all facets of the university.

**FACILITIES**

The physical properties of the U-M Ann Arbor campus are extensive and include more than 35M gross square feet of buildings and core infrastructure. There are more than 600 buildings and 2,000 classrooms and instructional labs.
DIVERSITY, EQUITY, AND INCLUSION

At the University of Michigan, our dedication to academic excellence for the public good is inseparable from our commitment to diversity, equity and inclusion. It is central to our mission as an educational institution to ensure that each member of our community has full opportunity to thrive in our environment, for we believe that diversity is key to individual flourishing, educational excellence and the advancement of knowledge.

**Diversity:** We commit to increasing diversity, which is expressed in myriad forms, including race and ethnicity, gender and gender identity, sexual orientation, socioeconomic status, language, culture, national origin, religious commitments, age, (dis)ability status and political perspective.

**Equity:** We commit to working actively to challenge and respond to bias, harassment, and discrimination. We are committed to a policy of equal opportunity for all persons and do not discriminate on the basis of race, color, national origin, age, marital status, sex, sexual orientation, gender identity, gender expression, disability, religion, height, weight, or veteran status.

**Inclusion:** We commit to pursuing deliberate efforts to ensure that our campus is a place where differences are welcomed, different perspectives are respectfully heard and where every individual feels a sense of belonging and inclusion. We know that by building a critical mass of diverse groups on campus and creating a vibrant climate of inclusiveness, we can more effectively leverage the resources of diversity to advance our collective capabilities.