



EXCELLENCE HIRES IN HEALTH TECHNOLOGY *at Illinois*

THE COLLEGE OF APPLIED HEALTH SCIENCES AT THE UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

is seeking **two new senior faculty excellence hires** to advance the expansion of our innovative and interdisciplinary research area in health technology.

We are expanding in two areas of health, with one position primarily focused on **physical health** and the second primarily focused on **psychosocial/cognitive/brain health**. Research on health technologies can involve development of emerging, innovative technologies as well as the integration of existing technologies to monitor health behaviors; enhance quality of life; predict, detect, or treat disease and disorders. Examples include sensors, assistive devices, wearables, mobile apps, robots, communication devices, advanced imaging, neurotechnologies, virtual/augmented reality, artificial intelligence, machine learning, telehealth applications.

We expect to hire two faculty members, with a primary research emphasis in either **physical health** or **psychosocial/cognitive/brain health**, both very broadly defined. Special consideration will be given to candidates whose research also emphasizes health disparities and health equity including those with disabilities.



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Health Sciences
UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

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This opportunity is part of an ambitious, ongoing campus and college expansion in health technology research. Candidates for these positions should be senior faculty (Associate or Full Professor) with a documented history of significant and sustained extramural funding. Successful candidates should have a history of leading large research groups and interdisciplinary collaborations, as well as demonstrated excellence in teaching and mentoring. We seek collaborative leaders with a strong, innovative vision. These senior positions will be complemented by future hires at the assistant professor level to strengthen health technology research in our College. Competitive start-up packages and opportunities for named professorships exist for qualified candidates.

The College of Applied Health Sciences is home to three academic departments, any of which can be the academic home for faculty hired for these positions.

01 KINESIOLOGY AND COMMUNITY HEALTH



02 RECREATION, SPORT AND TOURISM



03 SPEECH AND HEARING SCIENCE



TO APPLY
SCAN THIS QR CODE AND CREATE A CANDIDATE PROFILE

Or view the listing [here](#).



Be sure to upload all required documents, including:

- Application letter that includes a discussion of:
 - program of research
 - teaching and mentoring
 - commitment to diversity, equity, and inclusion
 - vision for this position
- Curriculum Vitae
- Names and contact information for 3 references (to be contacted later)

For full consideration, please submit your application materials by **August 31, 2022**. Initial review of applications will begin immediately afterwards. However, the position will remain open until filled. The earliest starting date is January 1, 2023 (negotiable).

For additional information, please contact Search Committee Chair, Wendy Rogers, at wendyr@illinois.edu or 217-300-1470.



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COLLEGE OF APPLIED HEALTH SCIENCES

Resources

The mission of AHS is to promote culturally relevant individual and community health and well-being across the lifespan, facilitate optimal living with disability, and foster the development of livable communities in a diverse society through learning, discovery, and engagement.

The College enrolls 2,147 undergraduates and 419 graduate students. Within AHS are the Center on Health, Aging and Disability (CHAD); the Division of Disability Resources and Educational Services (DRES); and the Chez Veterans Center, as well as three highly ranked academic departments: Recreation, Sport & Tourism; Speech & Hearing Science; Kinesiology & Community Health. Our College has documented strengths in study of lifestyle behaviors such as exercise and nutrition, lifestyle interventions, microbiome, aging, human performance, falls and fall prevention, assistive technologies to improve communication, brain imaging, and community and organizational development. We recently dedicated a new College research facility - the McKechnie Family LIFE Home. These units and resources are described below.

Center on Health, Aging, and Disability (CHAD) within AHS supports the development and maturation of interdisciplinary teams and proposals related to this type of research. An example of our research effort is CHAD's research theme Collaborations in Health, Aging, Research and Technology (CHART), which is an interdisciplinary research program comprised of UIUC faculty, community partners, and health care providers devoted to supporting research efforts that promote aging successfully using technology. Additionally, CHAD works to further the research and public engagement missions of AHS, by supporting faculty research through research and grant development support, educational opportunities for faculty, and acting as a liaison to the local community, specifically through their continued support of the Age-Friendly Champaign-Urbana effort.

The mission of the **Disability Resources & Educational Services (DRES)** is to ensure that qualified individuals with disabilities are afforded an equal opportunity to participate in and benefit from the programs, services and activities of the University through the identification and enactment of reasonable modifications to institutional policies and procedures, the provision of effective auxiliary aids and services, the establishment of innovative educational services, and the pursuit of interdisciplinary disability research.

The mission of the **Chez Veterans Center** is to maximize the academic, psychosocial, and career potentials of our nation's veterans, military-connected members, and their families. The vision is to be the preeminent university center for transforming present and future generations of military-connected communities through innovative services, research, and education.



The **McKechnie Family LIFE Home** is a cutting-edge smart home research center focused on innovations in home environments to support independent living, healthcare needs, social interaction, and everyday activities. The ~5,670ft² facility includes a two-bedroom home; an attached garage; multi-purpose research and collaboration rooms; outdoor areas; and capacity for community engagement. The Observation & Control Center enables viewing and recording interactions in the home simulation space. The laboratory spaces provide opportunities for rapid prototyping of technologies, participant interviews, remote presence research, and educational and training activities. The collaborative spaces provide a hub for research teams, industry partners, clinicians, and for community engagement.





The **Department of Recreation, Sport and Tourism (RST)** faculty work to advance knowledge to foster healthy lifestyles, environmental stewardship and sustainability, effective management and marketing of organizations, and social and economic development of communities. The RST department offers residential B.S., M.S., and Ph.D. programs, and online M.S. program, and houses the Office of Park and Recreation Resources with a mission to build partnerships for healthy communities.



The **Department of Speech and Hearing Science** engages in research, education, and outreach activities that enhance communication across the lifespan, integrating research and clinical applications from the biological, behavioral, and social sciences. The department offers four degree programs (**B.S., M.A., Au.D., and Ph.D.**), including two American Speech-Language-Hearing Association accredited clinical programs (M.A. Speech and Hearing Science, Au.D). Within the department, 12 **faculty labs** are organized into three major research areas: hearing science, speech perception and production, and language and cognitive communication. The faculty bring diverse interdisciplinary perspectives to their basic and translational research

to contribute to the mission of AHS. The Department is housed in three locations: (a) the recently renovated Speech and Hearing Science building that houses academic, laboratory, and collaborative spaces; (b) the Audiology & Speech-Language Pathology Clinic; and (c) the “Collaboration Lab” that houses clinical faculty offices, a classroom, multiple study spaces for clinical audiology and speech-language pathology graduate students, private spaces for telepractice, clinical tests, and materials.



The **Department of Kinesiology and Community Health** has the mission to advance and disseminate knowledge related to health, rehabilitation, and human movement using an interdisciplinary approach. Through the integration of high-quality research, instruction, and outreach programs, faculty scholars within the department are leading initiatives that address pressing concerns of our diverse society such as prevention and management of chronic disease as well as maintenance of health and well-being across the lifespan. The recently renovated Freer Hall Lab includes a variety of new laboratory space totaling ~38,000ft² that includes several wet and dry space laboratories, office spaces for students and faculty and common areas

designed for meetings and collaboration. The research laboratories include two biochemistry and cell culture laboratories, equipped with centrifuges, biosafety cabinets, chemical fume hoods, incubators, -20°C freezers, flammable refrigerators, water purification system, and lab benches with vacuum and compressed air connectors. The three biospecimen collection sites include phlebotomy chairs and hospital beds designed for long term studies. The metabolic testing laboratory is equipped with an isokinetic dynamometer for measuring muscle strength (HUMAC Norm), two treadmills, and a metabolic cart (Parvo). There is also a body composition lab equipped with several ultrasound machines and a DXA for measuring body composition. Other facilities include a fully-equipped metabolic kitchen, and an observation room with one-way mirrors.





CAMPUS *Resources*

The University of Illinois Urbana-Champaign was established in 1867, and is a land-grant, Research 1 institution that has established an international reputation as an educational community ideally suited for excellence in scholarship and research across the academic spectrum.

In addition to being one of the highest-ranked public research universities in the country (#15 by US News and World Report), Illinois is, simply, a great place to work. The University is home to internationally recognized facilities and interdisciplinary programs including: [Carl R. Woese Institute for Genomic Biology](#), [Beckman Institute](#), [W.M. Keck Center for Comparative and Functional Genomics](#), [National Center for Supercomputing Applications](#), [Division of Nutritional Sciences](#), [Neuroscience Program](#), to name a few. With an undergraduate enrollment of 34,559 and a graduate enrollment of over 20,000 students in more than 100 disciplines, Illinois is among the top five universities in the country in the number of earned doctorates awarded each year. The quality of our students is very high. We are leaders in technology and our employee and alumni innovations have been extraordinary. YouTube, Netscape, medical MRI screening, the LED, and the plasma screen used in televisions and computers are just a few discoveries created by our faculty and alumni. In response to the COVID-19 pandemic, UIUC led all universities with a novel and aggressive non-invasive saliva-testing program, which served as a model for the country. The University of Illinois offers generous employee benefits including health insurance and retirement programs. In addition, we also offer our employees tuition waivers and other development opportunities for personal and professional growth, including a Dual Career Academic Couples Hiring Program. We value our employees and seek to foster an inclusive workplace.

AHS enjoys a rich collaboration with our outstanding Grainger College of Engineering. This includes co-developed grant projects (for example, our TechSAGE Rehabilitation Engineering Research Center (RERC) on Technologies to Support Aging-in-Place for People with Long-Term Disabilities), a collaborative Master of Science degree in Health Technology, and donor-supported, co-sponsored research symposia with the Health Care Engineering Systems Center and the Department of Industrial and Systems Engineering. In addition, the Carle-Illinois College of Medicine is the first engineering-inspired medical school in the country and serves as an excellent source for clinical partnerships.

The Interdisciplinary Health Sciences Institute, Center on Social and Behavioral Sciences, and the Discovery Partners Institute (located in Chicago) offer many research support services and outreach opportunities to health care systems such as Mayo Clinic, OSF HealthCare, and Carle Hospital, as well as industry, community, and partners. The Beckman Institute for Advanced Science and Technology offers opportunities for affiliation or formal appointment (including laboratory space) with several relevant research groups including Brain Connectivity and Networks, Neurotechnology for Memory and Cognition, and others. Beckman's Biomedical Imaging Center supports new 7T human and 9.4T small animal magnetic resonance imaging systems. Innovative interdisciplinary graduate programs in neuroscience and nutrition offer opportunities for collaboration and student recruitment.

The Center for Innovative Instrumentation Technology (CiiT) focuses on the use of nanotechnology sensor platforms, such as optical/chemical biosensors, microelectronic sensors, imaging modalities, smartphone-based sensors, and micro/nanofluidics in the application areas of life science tools, agricultural systems, food safety sensors, and mobile systems. The Cancer Center at Illinois initiates and harnesses the combined power of engineering and basic sciences to transform cancer research, detection, and treatment. The National Center for Supercomputing Applications is a leader in advanced computing, software, data, networking, and visualization resources. These resources and more provide a fertile environment for cutting-edge health technology research.





THE CHAMPAIGN-URBANA *Community*

Home of the University of Illinois flagship campus, Champaign-Urbana is a 'micro-urban' community with a population of ~226,000 in the metro area located in east central Illinois. It is conveniently located between Chicago, Indianapolis, and St. Louis, and has its own airport and train service.

Combining natural Midwest beauty and cultural resources typically found in much larger metropolitan areas, our ['micro-urban' community](#) is friendly, livable, easy to navigate, affordable, and has an excellent public school system. A 'work-life' balance here gives faculty ample time for both scholarship and family pursuits without the hassles of large city life. The average commute time is less than 15 minutes. The [Champaign-Urbana](#) area offers a range of businesses, recreation, and culture unmatched by other communities its size, due in large part to the presence of the University of Illinois. Whether you are looking to raise a family, enjoy the outdoors, partake in a variety of cultural activities, enjoy the excitement of Big 10 sports, or become part of the University of Illinois community, Champaign-Urbana has much to offer.



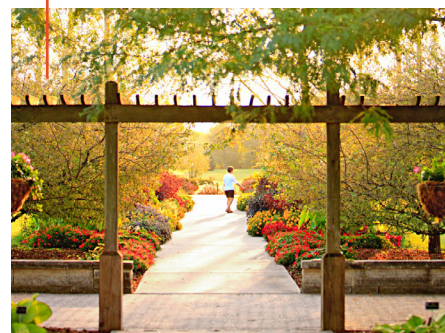
DOWNTOWN CHAMPAIGN



CAMPUS



ARBORETUM



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