



AN OSF HEALTHCARE,  
UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN  
AND UNIVERSITY OF ILLINOIS COLLEGE OF  
MEDICINE PEORIA COLLABORATION

## Jump ARCHES grant awards address medical misinformation, health equity and other significant health care challenges

### For Immediate Release

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(December 15, 2022/PEORIA/URBANA, Ill.) – [Jump ARCHES research and development program](#) awarded nearly \$1.8 million in funding across 16 projects to address a variety of medical challenges. Many of the grant awards address issues dominating the news, including health care inequity, misinformation on social media, and the need for earlier detection of anxiety and viruses for improved treatment.

“These projects leverage the strengths of OSF HealthCare and our academic partners who are committed to practical solutions that can be deployed throughout health care to make a difference in early diagnosis, personalized treatment and disease prevention,” according to John Vozenilek, MD, vice president/chief medical officer, OSF Innovation & Digital Health. “These awards reflect the value we see in utilizing data, genomics, engineering and computer science advancements, along with social and behavioral factors that can have a significant influence on individual and community health.”

Elizabeth Hsiao-Wecksler, PhD, interim director of the UIUC Health Care Engineering Systems Center and professor of mechanical science and engineering, says some of the grants build on past successful Jump ARCHES research that is driving innovative solutions.

“Those projects will advance efforts to show proof of concept and scalability as a go-to-market solution to benefit partners and many others in the health care industry,” says Hsiao-Weckler. “Other projects lay the foundation for novel initiatives that will take time to develop but that show promise for transforming approaches to prevention, diagnosis, treatment and health outcomes.”

The Jump ARCHES program is a collaboration between OSF HealthCare, the University of Illinois Urbana-Champaign, and the University of Illinois College of Medicine Peoria. The funding supports research across multiple disciplines including clinicians, engineers and social scientists focused on rapidly developing solutions to advance medical training and health care delivery.

**[HERE IS THE FULL LIST OF PROJECTS AWARDED GRANTS](#)** through the Jump ARCHES program.

## **Highlight Project: Creating an application for health care providers to counter misinformation on social media**

Health experts worry Twitter owner Elon Musk's decision to drop a ban on misinformation will exacerbate the growing problem of health misinformation circulating on social media. Health providers can't keep up with the latest misinformation so they're often left with few options to respond to patients' assertions or questions. This project will develop and deploy a stream of cost-effective, real-time fact-checking services through an application that provides physicians and other health care professionals with early-warning information tied to a variety of diseases, treatments and remedies. [READ THE STORY.](#)

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**OSF HealthCare** is an integrated health system owned and operated by The Sisters of the Third Order of St. Francis, headquartered in Peoria, Illinois. OSF HealthCare employs nearly 24,000 Mission Partners in 150 locations, including 15 hospitals – 10 acute care, five critical access – with 2,089 licensed beds, and two colleges of nursing throughout Illinois and Michigan. The OSF HealthCare physician network employs more than 1,500 primary care, specialist and advanced practice providers. OSF HealthCare, through OSF Home Care Services, operates an extensive network of home health and hospice services. It also owns Pointcore, Inc., comprised of health care-related businesses; OSF HealthCare Foundation, the philanthropic arm for the organization; and OSF Ventures, which provides investment capital for promising health care innovation startups. More at [osfhealthcare.org](https://osfhealthcare.org).

**Jump Trading Simulation & Education Center**, a part of [OSF Innovation](#), is a collaboration between University of Illinois College of Medicine, Peoria and OSF HealthCare. Jump replicates a variety of patient care settings to ensure novice and seasoned clinicians can practice handling medical situations in a real-world environment. Boasting six floors and 168,000 square feet, the center is one of the largest of its kind and provides space for conferences, anatomic training, virtual reality and innovation. For more information, visit [www.jumpsimulation.org](http://www.jumpsimulation.org).

### **Jump ARCHES partners:**

**The Health Care Engineering Systems Center of the Grainger College of Engineering at the University of Illinois Urbana-Champaign (UIUC)** focuses on connecting UIUC researchers with medical providers to create projects applicable to healthcare through interdisciplinary research. A large part of HCESC's mission is collaboration: their partnership with Jump Simulation Center in Urbana provides training on the latest mannequin-based simulators and virtual reality tools to meet the needs of medical and allied health organizations in central Illinois. Their Jump ARCHES partnership with OSF HealthCare in Peoria, provides direct access and competitive grants for researchers and clinicians of every discipline to work together and solve healthcare problems. More at [healtheng.illinois.edu](https://healtheng.illinois.edu).

**University of Illinois College of Medicine Peoria (UICOMP)** educates 244 medical students and nearly 300 physician residents annually. The College of Medicine is home to the Cancer Research Center, the Center for Outcomes Research and is a collaborator in Jump Simulation. Learn more about UICOMP at [peoria.medicine.uic.edu](https://peoria.medicine.uic.edu).