



Grainger College of Engineering

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

JUMP SIMULATION CENTER

Jump Simulation Center is a state-of-the-art educational space focused on using and developing simulation technology to train innovative medical professionals, uniquely equipped to transform the world of health care. Located at the University of Illinois Urbana-Champaign, Jump Simulation Center provides simulation training needs for the Carle Illinois College of Medicine, the first medical school in the U.S. created with a focus on the intersection of engineering and medicine.

The University of Illinois launched the Jump Simulation Center in 2018 with a generous \$10 million gift from Jump Trading. The center is a manifestation of the mission of Jump Applied Research for Community Health through Engineering and Simulation (ARCHES), a partnership between the university and OSF HealthCare in Peoria.

Jump ARCHES and the Jump Simulation Center are dedicated to creating new and innovative simulation technologies to transform the way health care professionals learn. Virtual, augmented, and mixed reality systems are the future of medical education.

FACILITIES & EQUIPMENT

Jump Simulation Center offers several learning environments and task trainers. Our staff can help you develop curriculum based upon your current practice's guidelines to identify and address knowledge gaps.



Simulation Spaces & Suites

- **Control Room:** all rooms can be monitored by B-Line Medical/Simcapture™ software system, allowing facilitators, technical operators, or educators to lead scenarios or monitor student progress.
- **Intensive Care Unit (ICU):** contains functioning ventilator, hospital-grade beds, code carts, workstations on wheels with EPIC EMH documentation, compressed air, and video capabilities.
- **Operating Room:** contains scrub station, operating table, surgical lights, overhead monitors, airway cart, compressed air, and video capabilities.
- **Virtual Reality Station Room:** contains four virtual reality simulation stations
- **Multi-Purpose Skills Lab:** contains several task trainers, compressed air, and video capabilities.
- **Patient Clinical Rooms (4):** contains compressed air, otoscopes, ophthalmoscopes, thermometers, and workstations on wheels with EPIC EMH documentation.
- **Debriefing Rooms (4):** accommodates 8 learners for pre-briefing, debriefing, & video conferencing.



VISIT JUMP SIMULATION CENTER

Are you interested in utilizing the Jump Simulation Center for your organization's educational and training needs? Visit Jump Simulation Center for a tour and take a look at our available spaces and equipment.

Jump Simulation Center is located in the lower level of Everitt Laboratory on the University of Illinois Urbana-Champaign campus.

Please contact Jump Simulation Center manager Shandra Jamison to schedule a tour and discuss your simulation training needs.



Shandra Jamison, MA, RRT
Manager, Jump Simulation
Center at Illinois
shandraj@illinois.edu
217-244-3820

Jump Simulation Center
Everitt Laboratory, Lower Level
1406 W. Green Street
Urbana IL, 61801
jumpsimulation.illinois.edu



Health Care Engineering Systems Center

FACILITIES & EQUIPMENT

Simulation training enhances technical skills in a low-risk environment. It is as close to reality as possible without affecting a real patient's health and safety while learning.

Virtual Reality Training

- ECMO VR Simulator
- VR Sepsis Trainer
- Airway VR (Intubation)
- Virtual Anatomy



Simulation Equipment

Routine

- Breast Exam Simulator
- Adult IV & Injection Arm
- AED Trainer
- Catheterization/Enema Trainer
- Harvey Heart™
- Ventriloscope
- Lumbar Puncture & Epidural Simulator
- Adult Blood Pressure Arm
- Otoscopy Trainer
- Venipuncture Pad
- Ultrasound
- Eyesi™ Direct Ophthalmoscope
- Adult Crash Cart
- ECMO Trainer
- RoSS Robotic Surgery Trainer™

OB/GYN

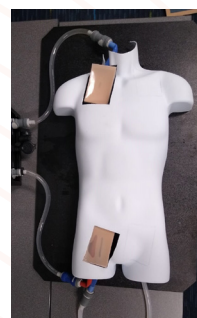
- Gynecological Simulator
- Normal & Abnormal Uteri
- FLS™
- Cervical Dilation Trainer

Pediatric

- Newborn Pedi Skills Trainer
- Newborn Airway Trainer
- Baby Stap
- Infant IO Leg
- Pediatric Crash Cart

Manikins

- Newborn Anne™
- SimBaby™
- SimJunior™
- SimMan3G™
- SimMan ALS™
- SimNewborn™
- SAM 3G Auscultation Manikin™



IN 2020

576
INSTRUCTION
HOURS

40
Unique Simulations

11
Instructors

INNOVATION IN ACTION



The Illinois RapidVent emergency ventilator was developed by Grainger engineers in March 2020 when COVID-19 cases rose. Jump Simulation Center staff assisted with extensive testing of RapidVent prototypes.

PERFECT PRACTICE MAKES PERFECT



Carle Illinois College of Medicine students spent over 400 hours in simulation training on fundamental skills of clinical practice, such as donning and doffing PPE, performing ultrasounds, and intubating patients.