



On-Call Simulation Technician

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Overview

The Simulation Technician is responsible for the daily technical operations of the WMED Simulation Center. This educational facility provides simulation-based education and training services to all programs within WMED, as well as to community physicians, nurses, pre-hospital providers, allied health and other healthcare providers in southwest Michigan. Although undergraduate and graduate medical education is emphasized, the Simulation Center incorporates and encourages multi-specialty, interdisciplinary, and inter-professional educational activities. Medical education programs in the Simulation Center assists learners in their development of cognitive, procedural, communication, and teamwork skills, skill maintenance, clinical decision-making, professionalism, and effective, efficient, safe, and collaborative medical care in a state-of-the-art learning environment. The Simulation Center also promotes research in medical education and human performance. The Simulation Technician maintains simulators and support equipment, troubleshoots problems with simulators and support systems (e.g., AV system), and operates a wide array of educational technology (including online and computer-based instruction).

Responsibilities

- Understands the use and operation of different simulation technologies and educational software used in the Simulation Center, ranging from screen-based simulations to full body patient simulators and virtual reality surgical simulators.
- Develop technical proficiency with all aspects of the operation, maintenance, support, troubleshooting, and repair for all equipment in the Simulation Center.
- Prepares the facility, mannequins, audiovisual systems, and equipment for training sessions; packs up materials and shuts down equipment after the session.
- Performs videotape recording, duplication, mixing and editing.
- Assists in programming, testing, and running simulations.
- Assists with the operation of the simulators during training sessions.
- Learns, installs, and configures original hardware and software and updates provided by equipment and software suppliers.
- Assists with facility improvements and new equipment deployment.
- Assists in researching equipment and supply vendors, obtaining bids, and acquiring and upgrading simulation equipment and supplies.
- Assists with organization of equipment and supplies in storerooms.
- Monitors equipment performance, safety, and certification.
- Maintains and troubleshoots problems with simulators, the AV system, and support equipment.
- Serves as a point of contact and interfaces with equipment manufacturers to maintain functionality, repair equipment, and fix system problems; maintains a record of repairs.

- Attends conferences periodically to stay current with simulation technology. Provides training and certification in the use and maintenance of the simulation equipment for those who will use the equipment unsupervised.
- Assists in the acquisition of technical knowledge of simulator and medical device, operation and procedures among instructors to ensure that curricula are accurate and appropriate.
- Provides training and technical support for the computer-based recording system.
- Demonstrates, teaches, and supports the technical aspects of operating simulators to faculty and others.
- Supports/assists in role playing, applications, props placement, and moulage set-up to create a virtual health care environment and experience.
- As directed, will attend orientation and training sessions of Surgery Residents to support operation of surgical simulators and assist with provision of supplies and equipment.
- Monitors and keeps track of utilization statistics for events and training, including the use of surgery simulators and equipment used by Surgery Residents.
- Availability to work occasional overtime on weekends or evenings to complete time sensitive projects.
- Acquires knowledge for new technology and policy/procedure revisions.
- All other duties as assigned.

Qualifications

- Must have completed undergraduate training in a biomedical technology or healthcare field, such as nursing, respiratory therapy, or paramedical fields.
- An associates or bachelor's degree in a healthcare and/or computer field, desirable.
- Experience with medical simulation and/or computer-based instruction and e-learning is highly desirable.
- Preferably be currently certified or be able to obtain certification as an AHA Basic Life Support (BLS) Instructor within 6 months of hire. Proficiency in PC and Mac-based computer software applications, including Microsoft Office Word, Excel, PowerPoint, Access and basic web design, and proficiency in associated hardware.
- Ability to conduct an Internet literature search for information.
- Ability to safely operate a motor vehicle (i.e., ¾ ton truck) and tow a trailer (up to 24 feet long).
- Strong analytical, interpretive, problem-solving, and project management skills.
- Strong communication (English: written and verbal) and interpersonal skills.
- Self-motivation and willingness to learn new skills.
- Ability to work under pressure and reliably meet deadlines.
- Ability to work effectively in a team environment with healthcare professionals
- Ability to maintain confidentiality regarding job assignments and sensitive issues.
- Demonstrates the ability to recognize priorities in organization of work flow.
- Able to perform duties independently, with a minimal need for direct supervision.

About Western Michigan University Homer Stryker M.D. School of Medicine

Western Michigan University Homer Stryker M.D. School of Medicine (WMed) is an exciting environment to pursue and academic career. The medical school is a collaboration of Western Michigan University and Kalamazoo's two teaching health systems, Ascension Borgess and Bronson Healthcare. The medical school is a private 501(c)(3) nonprofit corporation supported by private gifts, clinical revenues, research activities, tuition, and endowment income. Building upon the \$100 million foundational gift in 2011, WMed received a philanthropic commitment of \$300 million to support the

mission of the medical school in June 2021. WMed contributed to the creation of 1,600 new jobs and an economic impact of \$353 million in Kalamazoo and Calhoun counties in 2020.

WMed is fully accredited by the Liaison Committee on Medical Education and the Higher Learning Commission. WMed offers a comprehensive, innovative four-year Doctor of Medicine degree program and two Master of Science degree programs in Biomedical Sciences and Medical Engineering. There are more than 200 residents and fellows in 10 residencies and five fellowships accredited by the Accreditation Council for Graduate Medical Education. To support its mission to educate and inspire lifelong learners, WMed has Joint Accreditation for interprofessional continuing education, which incorporates accreditation by the Accreditation Council for Continuing Medical Education.

WMed Health is the clinical practice of the medical school with more than 300 providers offering comprehensive primary care and specialty services in several locations throughout Kalamazoo, Portage, and Battle Creek. The Department of Pathology faculty serve as the Office of the Medical Examiner for counties throughout Michigan and northern Indiana.

The W.E. Upjohn M.D. Campus located in downtown Kalamazoo serves as the primary educational facility with faculty and administrative offices, student study and social spaces, team-based learning halls, a state-of-the-art Simulation Center accredited by the Society for Simulation in Healthcare, basic science research labs, as well as toxicology and forensic pathology labs.

WMed is building upon Kalamazoo's century-long foundation of drug discovery and medical device development with a strategic investment in clinical, laboratory, community, and educational research. The Center for Immunobiology, Center for Clinical Research, WMed ForenTox, Research Histology Lab, Innovation Center, Division of Epidemiology and Biostatistics, and Human Research Protection Program contribute to the medical school's advancement of knowledge through innovation and discovery.

Western Michigan University Homer Stryker M.D. School of Medicine is an Equal Employment Opportunity/Affirmative Action employer of females, minorities, individuals with disabilities, and protected veterans, and actively strives to increase diversity within its community. We provide a drug- and tobacco-free workplace.

EEO Minorities/Women/Disabled/Protected Veterans.