

Position title: Experiential Learning and Assessment Laboratory (ELAB) Technician

Reports to: ELAB Coordinator

Location: JFK Medical Center, Monrovia, Liberia

Engagement: Full-time contractor

About BRIDGE U:

BRIDGE-U: Applying Research for a Healthy Liberia is a USAID-funded partnership between the University of Liberia College of Health Sciences (ULCHS), Yale University, Vanderbilt University Medical Center (VUMC), and other innovation and health sector, partners. The five-year project will establish a Center for Teaching, Learning, and Innovation (CTLI) at ULCHS, which will house activities, facilities, and personnel working to utilize research for development impact. Further, it will build research capacity utilization throughout the health workforce pipeline while generating new knowledge and how best to do both. By the project's end, CTLI will be a national public-private academic hub for research utilization training and collaboration throughout Liberia's health sector supported by institutionalized revenue generation and administrative systems.

CTL's Experiential Learning and Assessment Lab (ELAB) will deliver simulation-based training utilizing standardized patients (actors) and high-tech manikins that allow students and practitioners to practice professional skills and patient care techniques in a simulated clinical setting. Clinical simulations will be built around the application of research findings (including new standards of care and best practices as identified by national, regional, or international regulatory bodies or associations) in inpatient care scenarios, incorporating debriefings with trained observers following each simulation.

For an example of high-tech manikins and simulation education, please visit:

<https://www.youtube.com/watch?v=V3lzoacQUUs>

The ELAB will be based at the John F. Kennedy Medical Center in Monrovia, Liberia, the teaching hospital for ULCHS. This location will facilitate utilization of the lab by medical students, intern and resident physicians, nursing and midwifery students from multiple schools, and practicing clinicians as well.

Summary of Position:

The Technician will manage and operate of both the high-tech simulation manikins and the lab's audiovisual systems. They will work hand-in-hand with faculty and other educators to ensure the smooth implementation of simulation scenarios and debrief sessions. The staff will be responsible for operating, maintaining, and repairing sensitive IT and biomedical equipment.

Description of Responsibilities:

1. Running simulation scenarios
 - a. Use computers to operate manikins during simulation scenarios



- b. Independently manage IT and AV systems
- c. Maintain and archive videos files for review
2. Maintenance
 - a. Ensure installation, troubleshooting, repair, and cleaning of ELAB manikins and AV equipment
 - b. Solve daily equipment issues with sometimes limited resources
 - c. Keep detailed records and document equipment use and maintenance
 - d. Perform annual preventative maintenance of equipment, maintain all temperature and camera monitoring systems at the ELAB
 - e. Liaise with external partners, including partner medical centers and manufacturers, to troubleshoot any issues
 - f. Liaise with JFKMC engineering I team
3. Other duties
 - a. Assist with monitoring, evaluation, and learning (MEL) including surveys and data collection and utilization
 - b. Provide regular updates to the team on project progress/status
 - c. Give input on procurement of manikin(s) and AV equipment
 - d. Train and supervise student interns

Qualifications

1. Education
 - a. Required: Bachelor's Degree in science, technology, engineering fields
 - b. Preferred: Advanced training in biomedical engineering and/or IT
2. Experience:
 - a. Required: At least 5 years of related work experience in a fast-paced environment with sensitive electronic equipment
 - b. Preferred: At least 3 years of related work experience in a healthcare or education setting
3. Other skills:
 - a. Excellent oral and written communication skills
 - b. Proficiency in Microsoft applications
 - c. Advanced IT skills
 - d. Excellent organizational and analytical skills.
 - e. Project or technical leadership
 - f. Multi-tasking and ability to navigate competing priorities

Application Instructions

To apply, please submit a cover letter and resume to ULCHSHR@ul.edu.lr and doloit@ul.edu.lr with the subject line **"ELAB Technician Application."** Applications must be received no later than May 8, 2022. Applicants who advance to the next round will be contacted and invited to participate in interviews in mid-May. The successful candidate will be expected to start in June 2022.