



LIFT CALL FOR ROBOTICS INSTRUCTOR

Robotics Instructor Position Description

Pay Range: \$50 - \$75 per hour commensurate with experience (approximately 500 hours per course)

Contact with Interest: email or call Marianne Donoghue, Director Learning Lab at mdonoghue@almmii.org, m. 248-342-2304

Scope of Work: Provide robotics instruction for adults of varying skill levels and act as advisory to the robotics teaching space/equipment set up and configuration

Class Time Commitment:

- Weekly commitment is approximately 15 hours per week
- Class sessions takes place over the course of approximately 9 months
- Each complete course is approximately 500 hours total
- LIFT will work to accommodate instructor's schedule whenever possible

Class Preparations:

- Curriculum, materials and equipment are provided for the instructor and students - prepping materials (minimal / as needed)
- Instructor will be asked to advise on the set up of the robotics equipment and space arrangement

Location: 1400 Rosa Parks Blvd, Detroit, MI (Corktown Neighborhood adjacent to Ford mobility campus)

Start Date: LIFT will launch the course as soon as an instructor is hired

Qualifications: Successful candidates will have

- *Similar robotics instructor or worker role in a manufacturing setting (preferred)*
- Experience as a robotics technician, instructor or student
- Availability to teach evenings and weekends
- Must consent to a background check

Operation Next is a manufacturing-focused training and credentialing program initiative designed to provide a blended learning program resulting in the individual earning one or more nationally portable,



standards-based, industry recognized credentials in robotics, welding, CNC Technician and Industrial Maintenance.

Primary Function: Robotics Program Instruction

- Provide robotics instruction to students in LIFT Robotics Technician Training Center
- Instruct course utilizing **Operation Next Robotics Technician Curriculum**
- Plan and implement appropriate instructional strategies, including alternative delivery strategies when appropriate, including but not limited to hybrid, face-to-face and on-line course delivery
- Assess student performance in the courses you teach
- Communicate and consult with Learning Lab Director to order equipment and supplies, arrange for delivery and set-up, and maintain all equipment and tools to ensure compliance with national, state and lab safety requirements.

Instructor will teach the following processes and technologies:

- Robotics Skills
- Mechanical Basics and Troubleshooting
- Fluid Power Basics and Troubleshooting
- Electrical Systems
- Control Logic
- Electrical Control Troubleshooting
- Electronics Troubleshooting
- AC Variable Frequency Drives
- PLC/ Ethernet Troubleshooting
- Safety

Secondary Function: Robotics Technician Training Preparation

Lead preparations to prepare LIFT Learning Lab Robotics Training equipment related to this course:

Tasks to include:

- Review Operation Next Robotics
 - Suggest refinements for technician training educational materials as the course matures
 - Determine any supplemental materials needed for pathway to Smart Automation Certification Alliance (SACA) credentials in the Operation Next Robotics Technician Training curriculum
 - Recommend improvements to course sequencing for delivery of the curriculum
 - Review required equipment and identify needs and potentials additions
 - Advise Learning Lab Director on setting up the Fundamental Skills Lab to support the Robotics Technician Training, including setup and testing of equipment and shop/classroom layout
 - Develop supplies list identifying consumables, and other tools required for instruction
 - Test machines and report repairs needed
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LIFT is a National Manufacturing Innovation Institute, is seeking a **contract Robotics Instructor** for the Operation Next hybrid learning program in the LIFT Learning Lab in our state-of-the-art Corktown Detroit facility. <https://lift.technology/high-bay-virtual-tour/>

Operation Next is an innovative, manufacturing-focused training and credentialing initiative designed to provide a blended learning program resulting in the individual earning one or more nationally portable, standards-based, industry recognized credentials. <https://www.opnextjobs.com/>

Report: Instructor will report to LIFT Learning Lab Director

NOTE: LIFT may determine to not run cohorts if sufficient student enrollment is not reached. LIFT will notify the instructor on a mutually agreed upon timeframe in advance if a cohort will not run.