Organization Name: Buffalo Manufacturing Works

Location: 683 Northland Ave Door E, Buffalo, NY 14211

Website: Buffalo Manufacturing Works - Operated by EWI

Organization Description and Core Values: Does an internship spent exploring robots and other automation technology sound fun? Do you like the idea of identifying, developing, and testing new robotic applications? Do you view yourself as a “maker”? If you answered yes to these three questions, then we’d like to talk with you about an automation internship at Buffalo Manufacturing Works.

Buffalo Manufacturing Works, operated by EWI, is a one-of-kind center for advanced manufacturing. We are focused on developing, maturing, and implementing new technologies that have an impact on the clients we work with and the communities in which they live. Our customers are based across the country and include world-class leaders in the aerospace, automotive, consumer products, electronics, medical, energy & chemical, government, and heavy manufacturing industries. Located in Buffalo, New York, we are dedicated to building a nationally recognized hub of manufacturing innovation and are looking for smart, entrepreneurial, and driven people to help us achieve this goal.

EWI offers a work experience where the exchange of diverse ideas is encouraged, and where you can learn and grow. We’re looking for individuals who enjoy the entrepreneurial thrill of invention and who enjoy working as a team to create a satisfying outcome for our clients.

Position Supervisor & Title: Matt Malloy, Automation Program Manager

Internship Title: Automation Intern

Internship Duties and Responsibilities:

▪ Helping to identify and research potential automation technologies that could be used to support new applications
▪ Working hands-on with collaborative robots (cobots) and a variety of supporting technologies to perform proof-of-concept testing
▪ Participating in client discussions
▪ Supporting internal automation development projects
▪ Learning a ton about automation

Minimum Requirements:

▪ Currently enrolled in an undergraduate or graduate program in engineering at an accredited university
▪ Desire to work in hands-on lab environment and research environment
▪ Education and experience in arc welding and/or robotic programming
▪ Basic working knowledge of industrial robot/cobot technologies through coursework, previous jobs, or other activities
▪ Basic working knowledge of a few supporting technologies such as vision systems, sensors, grippers, controls, industrial protocols, pneumatics, etc.
▪ 3D modeling experience (preferably Solidworks)
▪ Experience programming cobots
• Experience integrating a cobot/robot with supporting technologies or other equipment
• Experience with 3D printing
• CNC programming and operation experience
• Python programming experience
• Strong interpersonal communication skills and ability to effectively present to a group
• Proven adaptability and flexibility as a part of a team
• Solutions-oriented mindset
• Seeking to learn from leading minds in innovation
• Proficient in MS Office
• Excellent written and verbal communication abilities

Preferred Requirements:
• Has a strong “maker” mindset. Creativity and a strong drive to “figure it out” is critical
• Is hardworking, ambitious, and enthusiastic about automation technologies
• Works efficiently and safely in both independent and team situations
• Has good time management skills, and always follow-through on commitments

Physical Requirements:
• Laboratory/light production floor with ventilation, climate-control system, moderate lighting, and moderate noise level;
• Use finger dexterity to type, adjust, move, handle, perform, operate, install, attach, remove, apply, grasp, manipulate, and measure;
• Frequently move, transport, rotate, reach, pull, twist, adjust position, push, stoop, bend, and crouch; and
• Lift 10 to 40 pounds on a frequent basis and 40 to 80 pounds occasionally

Intern takeaways:
• Automation experience
• 3D Printing experience
• Communication skills

Duration of employment: June through August; Office is open 8 am-5 pm

Compensation: $21 hour for 40 hours per week during the summer, with potential for overtime.

Transportation: Interns are required to provide their own transportation to and from Buffalo Manufacturing Works. A vehicle is not required for this position.

Accommodations:
The Say Yes Internship Program is committed to providing equal access to individuals with disabilities, including physical access to programs and reasonable accommodations for interns. EWI states that individuals who need reasonable accommodations under the ADA in order to participate in the search and/or application process should contact Human Resources at (614) 688-5000.

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To apply: Submit resume to buffalointernships@sayyesbuffalo.org. If necessary, Say Yes staff may send you suggestions before we send your cover letter and/or resume to the employer(s). In order to submit your materials by the deadline, please ensure that you check your email and reply promptly.

Deadline: Applications will be accepted until position is filled.

Interviews: Will be held until ideal candidate is identified.

Please note that internships are competitive and not every scholar will receive an interview. If you are selected for an interview, the employer will contact you directly.