Robotics Engineer

Location:
Chattanooga, TN

Type:
Full-time, Exempt

Reports To:
Vice President for Operations

COMPANY OVERVIEW:

Branch Technology is revolutionizing the way we construct buildings. Specializing in large-scale 3D printing, Branch brings unprecedented design freedom and resource stewardship to the construction industry. Branch offers a unique method of 3D printing in combination with composite assemblies to create prefabricated architectural components that are as robust as they are revolutionary. We're growing rapidly and are attracting top talent from all over the US. Our team includes seasoned leaders from architecture, manufacturing, and product development allied with a tight knit group of project managers, parametric and generative design experts and robotic engineers.

POSITION OVERVIEW:

The Robotics Engineer will be responsible for effectively leading a team of Robotics Technicians in developing, maintaining, and improving Branch's large-format robotic 3D printing production line. This position will work cross-functionally to move the company's production forward while focusing on safety, quality, and productivity. The Robotics Engineer will be responsible for implementing new technologies to the Branch production system as well as designing, laying out, and integrating additions to the production space. This position will work closely with the quality assurance process and team members to ensure effective practices are in place. The ideal candidate will possess excellent problem-solving skills and will have an ability to work effectively within a cross-disciplinary team.

SPECIFIC DUTIES:

1. Manage team of technicians and engineers to develop & improve hardware and software systems
2. Develop extruder tooling and control systems
3. Develop & maintain robotic software and controls on all line equipment
4. Foster an environment that focuses on continuous improvement activities (e.g. Lean, TPM, etc.) and robotic safety
5. Plan and integrate future robotic cells

6. Master all 3D printing techniques used by Branch and achieve Black belt status
7. Deeply collaborate with cross disciplinary software, hardware, robotics, production, and design teams.
8. Collect and analyze data to inform development and quality control.
9. Work with machine shop to get parts manufactured
10. Create BOMs of production systems
11. Lead development of Hardware department strategic priorities
12. Deploy quality control systems and analysis training, conducting tests and inspections to evaluate product/process quality
13. Work with Production team to design robot operator experience
14. Participate in KPI definition and reporting

REQUIREMENTS:

1. At least five years of experience with managing technical teams
2. At least five years of experience with industrial robot/PLC programming
3. B.S. degree (or its equivalent) in Mechanical or Electrical Engineering
4. Demonstrable proficiency with relevant software, including CAD/CAM, SolidWorks, and standard office environment programs (e.g. Google Apps, Microsoft Office)
5. Understanding of lean production systems
6. Advanced understanding of computer programming (e.g. C++, C#, Matlab)

Higher caliber candidates will possess experience with the following:

1. Kuka KRC2 and KRC4 robotic cabinet customization
2. Production environment robotic integration
3. Custom robotic fabrication
4. Polymer extrusion
5. Machine design and fabrication
6. Robotic vision and adaptive robotic control systems
7. HMI design and integration

APPLICATION PROCESS:

Review of applicants will begin immediately and continue until the position is filled. Before being considered, an applicant will need to submit the following documents to the relevant position at https://branchtechnology.bamboohr.com/jobs.

● letter of interest
● résumé (and work portfolio, if applicable)
● contact information for three references

Branch Technology is an equal opportunity employer. Visit www.branch.technology for more information and to see examples of the amazing work we're doing.