mxdusa.org
@mxdinnovates
info@mxdusa.org

1415 N. Cherry Avenue
Chicago, IL 60642
(312) 281-6900

Manufacturing Systems Integration Engineer

+ About MxD

MxD is where innovative manufacturers forge their futures. In partnership with the Department of Defense, MxD provides factories with the digital tools and expertise they need to begin building every part better than the last. As a result, our more than 300 partners increase their productivity and win more business.

+ Position Overview

MxD is seeking an experienced, hands-on Systems Integration Engineer that will report to the Director of Engineering. The position is an integral member of the Engineering team and is responsible for designing, building, testing, and commercializing state of the art digital technologies for use in America's factories. This role will work on existing MxD factory systems as well as new systems and will interface routinely with MxD members and government partners. This position is essential for the successful development and execution of member and government projects that provide U.S. factories the digital tools they need to be competitive and successful.

Factory networks, IIoT, cybersecurity, control systems, MES, and PLM integration are a few of the many areas covered by this role. Candidates must have sufficient experience to contribute to the design of systems while also being able to build these systems and assemble/program components.

As a research institution, MxD provides the opportunity and flexibility to work on the leading edge of the latest advancements in manufacturing technology. Join us and become part of the next industrial revolution!

+ Key Responsibilities

- Design, fabrication, and installation of equipment and panels
- Program control systems including PLCs and microcontrollers

- Integrate hardware and software subsystems into MES, ERP, and PLM, as appropriate
- Work closely with MxD IT on equipment access and connectivity
- Utilize project management skills to track and report project progress, and manage multiple projects simultaneously
- Interface with MxD commercial and academic members on project design and implementation
- Utilize DMAIC and similar tools to troubleshoot and continually improve systems performance
- Document systems design, operating/debug procedures, and lessons learned
- Mentor and teach manufacturers to deploy the technologies developed at MxD
- Continually investigate emerging technologies and maintain a future systems roadmap
- Conduct factory floor tours, requiring demonstration of IoT knowledge, including its development and implementation

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+ Position Requirements

- Bachelor's Degree in Mechanical, Industrial, or Manufacturing Systems Engineering
- 2-4 years of progressive experience in manufacturing systems integration
- Proven experience with digital manufacturing technologies
- Outstanding verbal and written communication skills. Ability to interface with the executive levels of both MxD and MxD commercial and academic partners.
- Strong project management skills
- Comfortable and ability to excel in fast paced, high energy environments
- Strong risk assessment, problem solving, and corrective action skills
- Computer literacy: MS Office, CAD, CAPP/MES/PLM management, PLC programming, data integration and communication, IOT equipment and protocols
- 100% on-site at MxD facility
- All MxD employees must be fully vaccinated or be able to provide a medical or religious exemption

+ How to Apply

- Please apply online at?www.mxdusa.org/careers by clicking on the link to the position posting and submitting an application including your resume and a cover letter explaining why you would be a good fit for this role and MxD.? Tip: Meeting the qualifications is important, but a great cover letter will set you apart!

+ Work with Us

- MxD is a results-oriented, lean, collaborative tech organization and 501(c)(3) nonprofit. We are hard-working, mission-driven, flexible, and work with a sense of urgency. We hire tech-savvy, committed, self-starters who can think outside the box, and have a strong capacity to learn and adapt to the needs of the organization and role through both skill and grit. All-star employees excel without the help of administrative support, and don't mind rolling up their sleeves and getting their hands dirty (figuratively!). Additionally, people who love to solve problems, no matter how big or small, find they are a good fit for MxD.
- Our state-of-the-art facility, located on Goose Island in Chicago (just north of downtown), features a manufacturing floor, a smart green infrastructure testbed, and a bustling open-office environment. MxD is a collaborative space, hosting many events for our partners and other prestigious organizations, so being able to engage with staff and visitors in a professional, helpful manner is a must.

- MxD is a 10-minute walk from the North and Clybourn Red Line stop, a 20-minute walk from the Division Blue Line stop, and accessible by a variety of other public transit options; additionally, we have free parking available for employees.

+ Anti-Discrimination Policy and Commitment to Diversity

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- MxD is proud to be an equal opportunity employer, committed to creating a diverse environment in our workplace, our communities, and within the tech industry. All qualified applicants will receive consideration for employment without regard to race, ethnicity, religion, disability status, economic circumstance, gender, gender identity or expression, sexual orientation, national origin, genetics, disability, age, or veteran status.