

JD0014 Mechatronics Engineer

Location: Taipei, Taiwan

Employment Type: Full-time

About AilumiQ

AilumiQ is an innovative deep-tech startup focused on revolutionizing the production of advanced materials, particularly next-generation quantum dots. We are pioneering an automated reactor platform powered by artificial intelligence to achieve unprecedented levels of precision, efficiency, and scalability in material synthesis. Our mission is to overcome the limitations of traditional manufacturing methods and unlock the full potential of quantum dot technology for various cutting-edge applications. Join our dynamic team and be part of shaping the future of advanced material production.

Job Summary

We are seeking a versatile and skilled **Mechatronics Engineer** to lead the mechanical design, electrical integration, and automation of our synthesis systems. This role will closely collaborate with the R&D team, combining mechanical engineering, electronics, and reactor design to deliver reliable and high-performance process platforms. You will be directly involved in 3D CAD modeling, industrial wiring, component fabrication, and system integration, ensuring seamless operation of our advanced equipment.

Responsibilities

- **Automation System Integration:** Design and implement mechanical and electrical architectures for automated equipment, ensuring system stability and reliability.
- **Mechanical Design & Prototyping:** Create detailed 3D models and 2D drawings for reactor components and structural frames.
- **Industrial Wiring:** Perform wiring for control boxes, signal lines, and power modules in compliance with safety standards.
- **Reactor Design:** Support and participate in the design and integration of chemical engineer systems.
- **BOM Management:** Generate Bill of Materials (BOM) and liaise with suppliers and fabrication partners.

- **Manufacturing Collaboration:** Apply machining knowledge (CNC, laser cutting, 3D printing) to assist in component selection and fabrication.
 - **Cross-Disciplinary Collaboration:** Apply chemical knowledge to effectively communicate with chemistry and materials science teams regarding mechanical requirements.
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Preferred Skills and Experience

- **Education:** Bachelor's or Master's degree in Mechanical Engineering, Electrical Engineering, Mechatronics, or a related field.
 - **Experience:** 2+ years of experience in automation system integration, mechanical design (CAD), or electrical control.
 - **Technical Skills:** Proficiency in industrial wiring and control box design.
 - **Supply Chain:** Ability to independently generate BOMs and coordinate with vendors/manufacturers.
 - **Fabrication:** Practical knowledge of machining (CNC, laser cutting, 3D printing) is a plus.
 - **Domain Knowledge:** Familiarity with chemistry or materials-related fundamentals to support cross-team collaboration.
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Benefits

At AilumiQ, we offer a comprehensive and supportive benefits package designed to empower our team members:

- **Statutory Benefits:** Labor and Health Insurance, Maternity/Paternity Leave, and Labor Pension Fund Contribution.
+2
- **Work-Life Balance:** Guaranteed 14 days of annual leave (pro-rated), weekends off, and flexible working hours to accommodate family needs.
+1
- **Financial & Health:** Employee stock options, performance-based bonuses, and annual health check-up subsidies.
+1
- **Environment:** Monthly welfare allowance of NT\$2,000, snack bar & coffee station, and flexible remote/WFH options.
+2
- **Growth:** Annual external training budget and employee training subsidies.
+1

To Apply

Please submit your resume and cover letter detailing your relevant experience in **mechanical design, automation control, or mechatronics integration**, and explain why you are interested in joining AilumiQ to hire@ailumiq.com.