

## **Job Description: Hardware Engineer**

### **Summary:**

ATOMICS is an early-stage startup that spun out of Brown University, and we are developing small molecule data storage systems to solve the world's pressing data storage and computing challenges. Our core technology provides solutions for secure physical object labeling and counterfeit detection in addition to data storage and molecular computing, making our technology dual-use with applications spanning government and commercial sectors. The nature of our technology is highly interdisciplinary, and we are excited to welcome you, a hardware engineer, to the team to work on many important and interesting engineering projects and develop revolutionary technologies for the future!

### **Responsibilities as an engineer:**

- Design and build electrical and mechanical systems for writing and reading molecular data using liquid handling systems and optical readout systems
- Conduct circuit design, sub-system development, board-level design, testing, and optimization of designs
- Conduct hardware testing and characterization to evaluate the performance of circuits and systems at both the component and system levels. Identify and isolate defects, and provide appropriate recommendations for solutions
- Participate in all aspects of the engineering life cycle of hardware products, including the back-and-forth communications with the rest of the engineering team to optimize the system.
- Initiate the implementation of new processes and collaborate with the team to enhance and streamline existing processes
- Create technical documents including specifications, design and test specifications, requirements, reports, and diagrams as necessary to support development projects
- Willing to work on several projects at the same time
- Effectively communicate with other team members and contractors to meet technology development milestones
- Provide oversight, guidance, and direction to technicians and interns regarding design, testing, and best practices
- Open to new technological challenges and a passion for learning new things!

### **What we expect from you (and what you can expect from us) as a team member:**

- We believe in our core that diversity and inclusion drive innovation, so bring your authentic self to work every single day and have an intrinsic motivation to make the work culture an inclusive and awesome place for all
- Be nice! We love smart and hardworking people, but not at the expense of being a kind human.
- Always look for growth opportunities, brainstorm with the team, propose new ideas, and support others to grow with you
- Be a great team member who collaborates with and helps those around them
- Be a great problem solver who is motivated to work on small or large challenges
- Be able to wear many hats and willing to go the extra mile to get the job done
- Have a positive and team-oriented attitude
- Take initiative and personal responsibility
- Enjoys and can work in a fast-paced startup environment

**Benefits of working with us:**

- We are a small and diverse team, and this gives you the opportunity to be an integral part of building a great work culture and technology that will change the world, all while having a deep sense of belonging on our team.
- You will have impact and ownership over the technology development roadmap, which is incredibly fulfilling!
- You will be expected to wear many hats that will challenge you, but you will always have a loyal support system and will grow in unimaginable ways while at ATOMICS.
- You will learn new skills and be exposed to many aspects of the startup - we welcome you to learn other aspects for your own personal and professional growth and development

**Required Qualifications:**

- Minimum of a bachelor's degree in engineering with accumulated related hardware development experience through 2+ years of experience and training
- Ability to work in the United States
- Experience with printed circuit board design and electronic hardware implementations
- Analog and digital design proficiency and simulation skills
- FPGA board and code design
- High-speed serial data circuit design
- Competency operating sophisticated lab testing equipment
- Strong interpersonal and writing skills
- Ability to work as part of a team
- Exceptional analytical and problem-solving skills
- Self-motivated and passionate about your work
- Always eager to learn and improve
- Be able to relocate

**Preferred Qualifications**

- Master's or a PhD in engineering or related field
- SolidWorks or similar CAD experience
- Experience in 3D and/or inkjet printing technology or other precise liquid dispensing systems
- Experience in the design, assembly, and alignment of electro-optical systems
- Experience working with coherent/incoherent sources of light, spectral devices, laser light detectors, including IR camera sensors

**Compensation Package**

- Competitive salary plus stock options, commensurate with education and experience
- Floating holidays
- Flexible scheduling
- Health insurance stipend
- Training and development opportunities

If you are interested in this posting please email your resume with the subject line "**Hardware Engineer Job Posting**" to [admin@atomicdata.com](mailto:admin@atomicdata.com).