



Senior Mechanical Engineer - Build

The rise in vehicle and equipment lightweighting has propelled aluminum and additive manufacturing into every manufacturer's weight reduction strategy. However, high costs and slow build speeds are preventing powder-based aluminum technologies from scaling to production. Alloy's novel method provides the on-demand flexibility of additive manufacturing with the unit cost of casting. This will transform the aluminium-heavy industries by offering a step change in manufacturing and design efficiencies.

The team consists of startup veterans who are no strangers to hard tech. We are looking for a sharp, tenacious, and creative mechanical engineer to join our team. The candidate will work on product development stages including design, prototyping, testing, and manufacturing. Strong communication, flexibility, and the desire to "wear many hats" will all be essential skills for a successful applicant. As the company grows, the candidate's roles and responsibilities will change. Alloy considers the professional development of its employees a top priority and will work with employees to create fulfilling roles.

What you will do:

- Design and development of a precision motion control and material handling machine for sheet lamination
- Identify and manage suppliers, work with them to improve DFM
- Manage design partners and consultants
- Detailed design, testing, and manufacturing work from concept through to production
- Document design decisions and test results quickly and effectively
- Verification and validation, performance, and durability tests; including analysis
- Work with materials team to develop process-driven hardware

About you*:

- You take ownership of your projects - complete tasks efficiently and effectively
- You are adaptable and excel when working in a fast-paced environment
- You want to participate in the full product development life cycle
- Enjoy the gritty details of part design, material selection, and manufacturing techniques
- 5+ years industry experience
- B.S. Mechanical, Industrial, or Manufacturing Engineering

Preferred skills*:

- Experience in additive manufacturing, robotics, and/or industrial automation
- Past design work in electro-mechanical systems, precision manufacturing equipment, or industrial machinery
- Have sourced components including lasers, optics, motors, sensors, stages and gantries

- Experience in the semiconductor, assembly line manufacturing, sheet metal machinery, CNC, or laser process industries
- GD&T, SolidWorks, OnShape, 2D Drawings, FMEAs
- Management of external partners, consultants, and suppliers
- Technical project management and leadership on cross-disciplinary teams
- Cabling, controls, and motion control experience is a plus

*These qualifications are meant to serve as guidelines for who should apply, but do not encompass all attributes or skills that could make you a great fit. We encourage interested candidates to apply even if they do not meet all criteria, especially women or other underrepresented groups who, according to [research](#), may otherwise hesitate.