



Bimotal Mechanical Design Engineer Intern Job Description Summer 2024

[Bimotal Application Submission](#)

The Company

Bimotal was founded in 2019 to develop innovative micro-electric powertrains for right-sized personal vehicles. We are a group of Tesla, startup, and bike industry alumni working towards our mission of reducing barriers to car-free mobility. In addition to our direct-to-consumer product, Elevate, an easily retrofittable and removable powertrain that converts disc-brake bicycles into e-bikes, we have also partnered with vehicle OEMs (bikes and other micromobility vehicles) to provide them with high-performance powertrains specifically designed for their needs. Bimotal is positioning itself as a technology company with the aim of making the best microelectric powertrains in the world, and eventually, the best personal-sized electric vehicles. Come join us in building the future of transportation.

The Job

This is a paid position. As a Mechanical Engineering Intern at Bimotal, you will gain hands-on experience designing and building world-class hardware for Bimotal's groundbreaking electric powertrains. You'll join and learn from an incredible engineering team focused on shattering the status quo for small powertrain performance on the way to transforming mobility - through products such as ebike motors all the way to vertically-integrated micromobility transportation systems. Bimotal is a fast-growing startup; be ready to take ownership of projects with real stakes, work independently, and tackle unfamiliar and challenging problems.

Responsibilities

- Full-stack mechanical engineering development, design and execution
- Design of hardware, hardware test fixtures, production tools and fixtures
- Assisting Sr. engineers on various projects: both hands on in the lab and CAD work
- Root causing reliability issues and brainstorming, designing, implementing fixes and then validating new solutions
- Design for manufacturing, testing, reliability, and service

Qualifications

- Strong CAD ability (Solidworks preferred) and understanding of FEA
- Machine shop training and experience, ability to prototype and do hands-on work
- Strong physics background with extensive mechanical engineering expertise
- Passion for details and deep work
- Junior with upper division coursework and excelling grades is preferred but all candidates and backgrounds will be considered



- Examples of phenomenal ability
- Excellent reading, writing, and spoken communication skills
- Extremely motivated and excited by taking incredible amounts of responsibility at an early startup

Logistics

Please fill out a [Bimotal Application Submission](#) to apply for this position. Our office is in a beautiful location and is walking distance to many great lunch spots (2 blocks to our favorite burrito spot, Picante), Amtrak, and BART. Interns are entitled to a 401k retirement plan and company-sponsored meals.