

# Project Engineer - Medical Product and Mechatronics Design

Helbling Precision Engineering, Inc. (Cambridge, MA & San Diego, CA)

## About This Role

Helbling is an engineering consulting firm with expertise in medical devices, laboratory instruments, mechatronics - and most importantly, innovation. We're looking for a Project Engineer to join our talented team of engineers who work on transforming specifications and concepts into functional prototypes and technically-substantiated products (and everything in between). The ideal candidate is a well-rounded team player who thrives in a dynamic environment - we regularly shift gears between ideation, theoretical analysis, detailed design (e.g. CAD), prototyping/building, testing, debugging, and, crucially, communicating that work with our clients. An ideal candidate also shares our passion for creativity and technology and commitment to high-quality work.

## Role Responsibilities

- Collaborate with team members in developing new medical devices, lab systems, robotics and automation solutions, incl. participation in brainstorming and design reviews outside your core project.
- Own development and refinement of mechanisms and/or systems (e.g. detailed design of plastic/metal parts, selection of motors, sensors, etc.) in CAD
- Apply fundamental engineering/physics calculations, tolerance analysis, GD&T, DFMEA, finite element analysis, etc. to support concept evaluations, conclusions, and recommendations
- Source, build, and test prototypes and related fixtures, generating key documentation as needed (2D drawings, test protocols, test reports)
- Prepare and present project reports, reviews, and weekly client updates

## Required Qualifications

- BS in Mechanical Engineering and 2+ years of related full-time professional experience or equivalent (Master's preferred)
- Eligible to work in the US without sponsorship (unfortunately we cannot sponsor H1B visa)

## Additional Qualifications

- Well-versed in fundamental engineering mechanisms and principles
- Experience in product design (especially medical devices/systems), robotics, and/or machine design a strong plus
- Comfortable creating robust CAD models, incl. larger assemblies (SolidWorks preferred)
- Interest in hands-on work (rapid prototyping and/or basic machine shop skills preferred)
- Proficiency in FEA, electromechanics, or programming (MATLAB, LabView, microcontrollers) a plus
- Excellent communication skills (e.g. ability to explain technical issues to a non-technical audience)
- Excited to work for a company that values diversity, equity, and inclusion

## Helbling offers

- Varied and exciting projects in MedTech and Robotics with motivated and collaborative teammates
- Flat organization (nimble with fast decision making)
- Respect for work-life balance
- Continuous opportunities for learning (including training and reimbursed coursework)
- Open office with infrastructure for in-house prototyping/testing (and snacks!)
- Connection to Helbling offices in Europe (including travel to Switzerland on special occasions!)
- Competitive salary
- PTO, sick time, and public holidays
- Insurance coverage (subsidized medical, dental, vision, life)
- 401K savings plan with matching

To apply for this role, please submit a resume and brief cover letter explaining both your personal and professional fit to [careers@helbling-inc.com](mailto:careers@helbling-inc.com). Please also specify your interest in either the Cambridge or San Diego office (or both).