



## RENU MEDTECH PRIVATE LIMITED

Address: Venture Center, 100, NCL Innovation Park, Dr. Homi Bhabha Road, Pune - 411008

### Job Description: Engineering Intern (Mechanical / Mechatronics)

#### About Renu MedTech

**Mission:** Use *deep tech* to democratize advanced diabetes care in India and other low / middle income countries, through cutting-edge and affordable medical devices

India has 140 mn+ diabetics, 5 to 10% of which are Type 1 with a high mortality rate of 33%. India still relies on insulin injections which are painful and have a huge risk of potentially fatal glycemic fluctuation.

Medically, the best line of treatment for diabetics is the insulin infusion pump coupled with a continuous glucose monitor (CGM), *which is prevalent in the West*. However, in India

- **This technology is prohibitively unaffordable**
- Neither is it designed for India and local conditions
- Nor does insurance cover this technology unlike the developed economies

#### Solution:

- Use **deep tech** to disrupt this market with "**An insulin infusion pump and a CGM**", that are *Made in India* for the global market
- Target Price point: 1/10th of current
- Target Markets: **India**, followed by **SE Asia**, **South Asia**, **Africa**, followed by **US**, **EU**, **ANZ**
- Target Customers
  - Insulin Pump: Type 1 and Type 2 (insulin dependent) diabetics
  - CGM: Type 1 and Type 2 diabetics, Vanity users
- Serviceable Addressable Market (SAM)
  - Insulin Infusion Pump: Target Markets = \$7.5B, India = \$3B
  - Continuous Glucose Monitor: Target Markets = \$2.7B, India = \$1B

***India needs a Maruti Suzuki and not a Mercedes!***

#### Co-Founders at Renu MedTech:

- **[Ajay Bhagwat](#), Chairman and Cofounder at Renu MedTech.** Founder and MD, Renu Electronics. Experienced in industrial automation, medical devices for 35 years. Insulin Pump pioneer in India. President: [TiE - Pune](#). IIT-Bombay, University of Iowa.
- **[Vardhan Phadnis](#), CEO and Cofounder at Renu MedTech.** 2x Entrepreneur: MedTech, eCom SaaS. Previously co-founded [Shoptimize](#) that was successfully acquired by [Graas](#). ISB, Georgia Tech, VJTI - Mumbai.

Renu MedTech is incubated at Venture Center, National Chemical Laboratory, Pune.

Apply to us at [careers@renumedtech.com](mailto:careers@renumedtech.com)



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### Requirements

**Internship Duration:** 6 Months starting Jan. 2026

**Location:** Pune

**Eligibility:** Final-year Engineering Students - Final-year Mechanical/Manufacturing Engineering student with a **Mechatronics minor (preferred)**.

**Note:** This is an on-site role.

### Key Responsibilities

#### 1. Device Prototyping & Mechanical Research

- Prototype **electro-mechanical subsystems** and support **component design**.
- Perform **mechanism validation**, tolerance checks, and assembly evaluation.
- Assess **mechanical components**, MEMS elements, and micro-mechanisms.

#### 2. Mechatronics Integration

- Work with **sensors**, MEMS, mechanical subsystems, and compact electronics.
- Conduct **mechanical–electronic integration testing** and basic debugging.
- Support **wiring**, soldering, and PCB mounting for interfacing.

#### 3. Lab-Based Experimental Work

- Perform **component testing**, micro-mechanism evaluation, and endurance studies.
- Run **stress/strain tests**, follow protocols, and maintain documentation.
- Assist with **fixture setup**, calibration, and test-rig development.

#### 4. Component & Technology Benchmarking

- Benchmark **mechanical components**, MEMS, actuators, sensors, and assemblies.
- Compare **performance**, cost, size, and durability for wearable use.
- Research emerging **miniaturized mechanical systems** and MEMS technologies.

#### 5. Collaboration With Cross-Functional Teams

- Work with **electronics**, firmware, and industrial design teams.
- Provide mechanical inputs in **design reviews** and prototype iterations.
- Participate in **brainstorming** and product improvement sessions.

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### Preferred Skills, Background & Expectations

- Final-year Mechanical/Manufacturing Engineering student with a **Mechatronics minor (preferred)**.
- Hands-on experience with **mechanical components, micro-mechanisms, and MEMS-based systems**.
- Understanding of **electronics, sensors, and basic embedded concepts**. Basic familiarity with **PCB circuits, soldering, wiring, and breadboard setups** (only as required for integration).
- Experience in testing small **mechanical assemblies and performing structured experiments**.
- Familiarity with **CAD tools (SolidWorks or Fusion 360)** is an added advantage.
- Comfort with **rigorous, repetitive, and precision-heavy** lab work.
- Problem-solving attitude with the ability to troubleshoot mechanical–electronic interactions.
- High discipline in maintaining **lab notes, test logs, and experimental documentation**.

### What You Can Expect (Learning Outcomes)

- **End-to-End Exposure:** Experience the full journey of building a biomedical device—from concept to prototype.
- **Hands-On Experience:** Work directly with mechanical systems, MEMS components, sensors, and micro-mechanisms.
- **Deep Technical Learning:** Develop skills in mechanical design, MEMS, actuation principles, testing, and lab experimentation.
- **Cross-Functional Collaboration:** Work alongside engineering, electronics, firmware, and product teams in a real startup environment.
- **Career Growth:** Learn from experienced biomedical engineers and contribute to impactful Diabetes-focused medtech innovations.
- **Stipend:** Stipend will be as per industry standards, and we follow a five-day work week.

*Our Company is an equal-opportunity employer and does not discriminate against any employee or applicant based on age, color, disability, gender, national origin, race, religion, sexual orientation or parental status.*

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