



# Senior Mechanical Designer at **KHETHWORKS**

## About Khethworks

At Khethworks (KW), we aim to give small acreage farmers control over their lives and livelihood through affordable, high-quality technology. We make solar powered irrigation systems that enable our customers to farm year round. We developed the irrigation technology at the Massachusetts Institute of Technology (MIT) in the United States. We founded KW in June of 2015 and relocated to India in January of 2016. We are currently a small but hardworking team of 3 and are located in Pune.

## Description

In this position you will be in charge of making decisions on the mechanical design of the product that are informed by data from field trials and benchtop experiments. Your goal is to optimize the product for mass manufacturing while preserving or improving efficiency.

As the Senior Mechanical Designer at Khethworks, you will be responsible for driving the design of the pump forward based on user feedback, manufacturability, and physics-based models. This role is a big part of our vision to bring high-quality, appropriate, and ultra-low-cost agricultural products to marginal farmers in east India and across the developing world. You will report to the CEO.

## Job Goals

In this position, you will work closely with the CEO on making product design decisions. You will work with the Senior Electrical Designer to ensure compatibility between the hydraulic and electronic subsystems and with regards to the form factors of the electrical and mechatronic components. The two of you, together, deliver the integrated product. You will also work with the Supply Chain Manager to ensure your design decisions can be realized with sourcing and manufacturing.

Success in this position will look like developing the product that lakhs of small acreage farmers carry to their fields daily. You create the physical embodiment of technology being leveraged to let farmers do what they do better. Your work delivers an irrigation system that performs better than anything in the market at a price that no one thought was possible.

In order to achieve success, you will need to work well with your colleagues; present thoughtful and well researched options to the CEO for the design of the product; and be ready and willing to take on new challenges when they arise.

## Qualifications

### *Required Skills/Experience*

- ☞ CAD skills (we use OnShape or Solidworks)
- ☞ Experience with design for manufacturing (DFM):
  - ☞ Familiarity with different manufacturing processes and their associated tradeoffs
  - ☞ The ability to alter mechanical design to be fit for particular manufacturing processes

### *Bonus Skills/Experience*

- 🌀 Pump or turbomachinery experience
- 🌀 CFD experience
- 🌀 Knowledge of motors

### *Personality traits*

- 🌀 Reliable
- 🌀 Self-driven
- 🌀 Hardworking
- 🌀 Flexible
- 🌀 Passionate
- 🌀 Team player

### **Stipend Range**

60-85K/month

(Note: Salaries are based on experience and expertise. Range is provided as an estimate.)

### **How to apply**

Please send the following to [info@khethworks.com](mailto:info@khethworks.com):

- 🌀 A brief note about yourself and your goals
- 🌀 Your CV
- 🌀 Any related portfolio or materials

