



## **Job Description**

### **Semiconductor Device And Process Integration Engineer**

#### **Overview**

We are seeking a very specific engineer for our team. We are open to full time or part time employment. The position is in-person only.

#### **Who We Are Looking For**

We are looking for someone with these types of skills, but not necessarily these exact skills:

- 1) Deep understanding of electrons and holes in semiconductor materials
- 2) Ability to simulate a solar cell in PC1D
- 3) Knowledge of parameters to tweak to improve the passivation of SiN PECVD films (and the tradeoffs in doing so)
- 4) Intuition of k-space and E vs. position band diagrams
- 5) Experience selecting the right electronic probe for different testing situations
- 6) Ability to program a testing instrumentation like the Keithly 2400 SMU
- 7) Experience modeling EQE, dark IV, and photocurrent curves and fitting the data to your model of the device
- 8) Knowledge of different ways of making a junction and the reasons why you might choose one way over another
- 9) Ideas of different causes of junction leakage
- 10) Understanding of how to analyze dark current, photocurrent, and EQE/IQE.

In addition, we are looking for someone that

- 1) Is interested in using his/her knowledge and skills to improve the health care industry and allow everyone access to biosensing and the benefits from biosensing,
- 2) And wants to work with a motivated and hard-working small team of talented people.

#### **Next Steps**

Please reach out to us if this position and our company are a fit for what you are looking for.

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