

# R&D ENGINEER



**Date:** January 2019

**Location:** Elgin, IL USA

**Department:** Engineering

**Job type:** Full-time, Salary

## Company Overview

Newhaven Display is a leading global display company that produces electronic display products for a wide variety of markets and applications. Our products include cutting edge LCD, VFD and OLED technologies.

## Benefits

At Newhaven Display, you are empowered to create a career that will take you to where you want to go. Here, you'll enjoy the freedom to explore new projects, the support to think outside the box and the advanced tools and technology that foster innovation and achievement. We offer an excellent working environment, salary and benefits package including vacation pay, medical, profit-sharing and advancement opportunities within the company.

## About the Job

This position is for a self-starter willing to learn multiple facets of our business within the engineering sector of the company. The successful candidate will work as a part of the Research and Development team, aiding in new product development, verification and validation, and researching new display technologies. Some light travel may be required along with possible International travel to our manufacturing facilities.

## Responsibilities

### • **Research and Development**

- Work with the R&D team to develop new display products, from concept to final production.
- Prototype, verify and validate new LCD, OLED, and PCB designs to ensure design requirements are met.
- Research and test new controller ICs to drive LCD/OLED displays, and capacitive touch panels.
- Design software to demonstrate new display products using embedded C/C++ and/or Linux platforms.
- Design and develop fixtures to demonstrate various display capabilities.
- Create and maintain example code to properly initialize and use our display products.
- Create mechanical models (3D/2D) to develop, manufacture, package, and market new products.

### • **Design Support & Documentation Control**

- Assist with new product designs, specification development, support, and research.
- Work with Applications Engineers to drive revenue growth through new custom design opportunities.
- Design and develop fixtures for assembling and testing display assemblies.
- Write datasheets, application notes, design guides and other technical support literature.
- Maintain design documentation and revision control.

## Requirements

- Bachelor of Science in Electrical/Electronics Engineering.
- Working knowledge of C/C++ and/or Linux based programming.
- Understanding of embedded systems, microcontrollers (PIC, AVR, etc.) and communication protocols (SPI, I2C, USB, etc.).
- Ability to read electronic schematics and have good working knowledge of electronics theory.
- Ability to build prototype designs and develop test fixtures and demo equipment.
- Experience with SBCs (Raspberry Pi, BBB, etc.) is highly preferred.
- Experience with AutoCAD and/or SOLIDWORKS is preferred.
- Experience with LCD, VFD, OLED or TFT display technologies is a plus.
- Experience with PCB design is a plus.
- Excellent verbal and written communication skills.
- Strong organizational skills, capable of completing tasks with limited supervision.
- Superior attention to detail, timely and persistent follow-up is essential.