



Manufacturing Technician

SparkFun Electronics - Niwot

Apprenticeship Details:

Work Address: 6333 Dry Creek Parkway, Niwot, CO

Compensation: \$13/hour in year 1

Total Apprentices for this Position: 2

Work Environment: Casual, social, open, climate-controlled environment. Students will work on production and warehouse floors.

Apprenticeship Details

Wage: \$13.00/hour

Location: SparkFun Electronics – 6333 Dry Creek Parkway, Niwot, CO 80503

Schedule: 8 am – 5 pm (flexible in regards to days of the week) **During the school year, TSD student apprentices work either a morning or afternoon shift, depending on the business needs and student schedule constraints.*

Start Date: 7/1/2020

Application Requirements: Take the Wiesen Test of Mechanical Aptitude. For more information, see the [Aptitude Assessment](#) section below.

Drug Testing: No

Background Check: No

Additional Details:

Work Address: 6333 Dry Creek Parkway, Niwot, CO

Compensation: \$13/hour year 1

Total Apprentices for this Position: 1

Work Environment: Casual, social, open, climate-controlled environment. Students will work on production and warehouse floors.

Is a background check required?: No

Is a drug test required?: No

Schedule:

Monday - Thursday (Mornings);Monday - Thursday (Afternoons);Alternating Block Schedule;Friday (full day);Fridays (half days)

Who We Are:

SparkFun Electronics (<https://www.sparkfun.com>) is an open source e-retailer focused on making embedded electronics accessible to people of all ages and skill levels. SparkFun was instrumental in creating the Open Source movement and remains a leader dedicated to making it more commonplace. We strive to educate, encourage, and supply our customers in all things electronic.

In 2003, CU student Nathan Seidle shorted a programmer in his dorm room and, in lieu of a way to order easy replacements, decided to start his own company. Since then, SparkFun has been committed to sustainably helping our world achieve electronics literacy from our headquarters in Boulder, Colorado. No matter your vision, SparkFun's products and resources are designed to make the world of electronics more accessible. In addition to over 2,000 open source components and widgets, SparkFun offers curriculum, training and online tutorials designed to help demystify the wonderful world of embedded electronics. We're here to help you start something. We are an equal opportunity employer that values a diverse workforce and an inclusive culture. SparkFun offers an abundance of opportunities to learn new skills from other Funions, in addition to many other benefits and perks.

Our Core Values are an incredibly important aspect of everything we do at SparkFun, from business decisions to how we welcome new employees to building meaningful relationships throughout the building. Our Values truly are who we are as an organization!

Those Core Values are: People First, Accountability, Respect, Transparency, and Innovation

You can check us out or follow us on the following social media sites:

- Facebook - <https://www.facebook.com/SparkFun/>
- Twitter – <https://twitter.com/sparkfun>
- Instagram - <https://www.instagram.com/sparkfun/>

Who You Are:

- **Team Player:** You are an open communicator who wants to help get things done and gather as much information as possible.
- **Problem Solver:** You use logical thinking, data, and knowledge to solve problems.
- **Mechanical Aptitude:** You like working with your hands; taking things apart and putting them back together.
- **Professionalism:** You are respectful, honest, and focused.
- **Accountability:** You hold yourself to a high standard and take ownership of your actions.

What You Will Do:

The Manufacturing Technician will be responsible for completing a variety of task associated with the manufacturing of both boards and kits within SparkFun's Production Department. These tasks will include testing, reworking, programming, and packaging of circuit board assemblies. These responsibilities will also include pulling parts for kits, completing kits and ensuring contents are 100% accurate, and reworking any kits deemed to be incomplete.

Working closely with other members of the Production Department, the Manufacturing Technician will ensure that SparkFun built products are always available for sale and are replenished as quickly as possible should they run out.

The right candidate will have a strong attention to detail, ability to work with very small parts, and be capable of learning a wide variety of skills as they relate to the overall manufacturing process of electronics. Job shadowing opportunities in other positions around SparkFun are potentially available.

Example work activities:

- Assembling and reworking circuit boards, including plated through hole soldering and surface mount device soldering
- Learning and using board assembly equipment, like a soldering iron, a reflow oven, a board washer, a hot air station, etc.
- Introduction to Bills of Materials (BOMs) for both circuit board assemblies and kits and instruction on how to properly read the schematics
- Testing and inspecting circuit boards, including following established and detailed procedures
- Pulling parts from inventory accurately and often
- Completing kit assemblies from raw materials to 100% completed kits
- Maintaining an organized and clean workspace

What You Have Done:

N/A

Coursework and Certifications:

Coursework and Certifications

This employer has committed to investing \$6,200 toward each apprentice's education. They have allocated \$2,200 toward industry certification(s) and related training in apprenticeship Years 1 and 2. They have allocated \$4,000 toward higher education coursework in apprenticeship Year 3.

Industry Certification

Manufacturing Technician apprentices will pursue the MSSC Certified Production Technician industry certification in apprenticeship Years 1 and 2. This certification has four modules: Safety, Quality, Production, and Maintenance. For each module, apprentices will take online coursework, receive instructional support from a CareerWise tutor, and then take a multiple choice exam. The time commitment for each module is approximately 20 hours. This certification is important for two reasons. First, it gives the apprentice the foundational skills, knowledge, and terminology to be successful in the manufacturing industry. Second, the certification is a great addition to the apprentice's resume.

Continuing Education Assistance:

Do we provide continuing education assistance to our full time employees?:

Aptitude Assessment:

Wiesen Test of Mechanical Aptitude

- **Who:** This is a required assessment if you are applying to apprenticeships in the Advanced Manufacturing Pathway.
- **What:** The Wiesen Test of Mechanical Aptitude is a 60-question multiple choice test. Test takers have 30 minutes to complete the test. As an aptitude test, no work experience or specific industry knowledge is required to succeed on the Wiesen Test. Rather, the Wiesen Test assesses your understanding of general concepts like gravity, momentum, and volume.
- **Why:** Wiesen Test results give employers a sense of whether you will be a quick learner for hands-on roles.
- **How:** Follow these steps to take the Wiesen Test. You only need to take the Wiesen Test once, even if you are applying to multiple apprenticeships in the Advanced Manufacturing Pathway. 1. Determine when and where you will take the Wiesen Test. You'll need a quiet environment, internet access, and 30-minute time window.

2. Click on this link to begin the test: <http://www.ondemandassessment.com/verify/apply/ySvAyDm/hhwPhTDE>
3. Fill in your name and contact information.
4. Complete the 60-question multiple choice test.
5. Results will be automatically shared with CareerWise and the companies that you are applying to for Advanced Manufacturing Pathway apprenticeships.

Create your student profile, upload your resume, and apply for positions at:

www.careerwisecolorado.org