Course Overview

This program teaches students about light energy, electrical energy, and how these are used in laser applications. The program has a major focus on the application of lasers. Laser classes involve collaborative and hands-on learning.

- 2-year program
- 10 – 25 student size classes
- High job placement rate
- Work anywhere in the country
- Scholarship opportunities

The Laser & Photonics Technology program is unique with a high job placement rate!
Career Outlook

The typical pay ranges from $40,000 to $75,000, dependent on location, job title, experience, etc. There are many job positions in many different states, including North Carolina, California, New York, Texas, South Carolina, Montana, Arizona, and Virginia. North Carolina opportunities include Cree in Durham, Wasatch Photonics in Morrisville, and Northrop Grumman in Charlotte. All these jobs are in a variety of fields, including field service, making medical devices for DNA sequencing, laser weapons, cancer detection, laser manufacturing, and large-scale security.

Scholarships

CCCC’s STEP-UP scholarship is available to Laser and Photonics students in Chatham, Lee, and Harnett Counties. The STEP-UP scholarship is funded by the National Science Foundation and is intended for students who need financial support and are pursuing an associate degree in science, math, or engineering. More information on this scholarship can be found at www.cccc.edu/stepup.

What You Learn

- Operation of common electrical instruments such as meters, probes, oscilloscopes, hand tools, and generators.
- Differences between laser light and common light.
- Ability to use a laser in an appropriate way. Discuss laser safety topics such as nominal hazard zone, maximum permissible exposure, and optical density.
- Learn properties and characteristics of lasers such as solid-state lasers, gas lasers, and semiconductor lasers.
- Installing, constructing, troubleshooting, and designing optical systems.

CONTACT

For more information or to schedule a tour of the program and campus, contact Gary Beasley (910) 814-8828 or gbeasley@cccc.edu

1075 E Cornelius Harnett Blvd | Lillington, NC 27546

www.cccc.edu