

SUMMER INTERNSHIP

COMPANY DESCRIPTION

Bandwidth10 is a semiconductor laser manufacturing company with its headquarters office in Berkeley, CA, and a full manufacturing/packaging facility in Taiwan. Our Berkeley office conducts Engineering and R&D activities. The company's core product is a family of tunable VCSELs with early stage technology developed at UC Berkeley.

More information: <https://www.bandwidth10.com>

JOB DESCRIPTION

We are seeking a Grad or Undergrad Student Intern to join our Berkeley team and support simulation and experimental research with emphasis in microelectromechanical systems (MEMS). Our goal is to scientifically understand the physics of electromechanical and optomechanical behavior at microscales and to apply this understanding to improve our family of products.

For this posting, we are seeking a Summer Intern who wants to gain skills relevant to a career in research and development, especially in modern micro-scale optical systems, microelectronics, sensors, and quantum systems. This work will be performed in Berkeley and has flexibility on amount of hours. Dedication can be full (40h/week) or part time (25h/week). A hybrid model can be negotiated – 2-3 days/week in office and another 3-2 days remote.

On a given day, you may be called upon to:

- Apply existing knowledge toward photonics and/or micro-optomechanical systems.
- Acquire new scientific knowledge (oriented study, either on textbooks or white papers) required for successful simulation or analysis of experiments.
- Acquire software knowledge for specific applications: imaging software, COMSOL, SolidWorks.
- Develop simulation and applications using platforms as COMSOL Multiphysics, Crosslight/PICS3D, Matlab.
- Assist with laboratory maintenance and experiment setup.
- Program computers to control data acquisition (LabView or Matlab), acquire and manage data, analyze data, etc.
- Work in a team environment, learn from others, and contribute your knowledge to the team.

Student internship can also be a career development opportunity. Development of an undergraduate thesis topic related to this work is possible.

QUALIFICATIONS WE REQUIRE

You bring the confidence and skills to be eligible for the job by meeting these minimum requirements:

- Currently attending and enrolled full time in an accredited undergraduate or graduate program.
- Pursuing a science, engineering, or math major (Junior or Senior standing if Undergrad). Recent Graduates are also welcome to apply.
- Basic knowledge of mechanical systems, electrostatics, and thermodynamics.
- Basic computer programming skills on any popular tool(s) such as Python, Matlab, Labview, SolidWorks, or Comsol.
- Minimum cumulative GPA of 3.0/4.0

QUALIFICATIONS WE DESIRE

Grad students at any level. Undergrads with academic standing as a Junior or Senior is preferred. Recent graduates are also welcome to apply.

- Experience working in a laboratory (class experience OK)
- Classes/experience with solid mechanics, microelectronics, MEMS, semiconductor physics, optical systems, laser systems, or microfabrication
- Classes/experience with computer programming, especially for data acquisition/analysis
- Classes/experience with finite element analysis tools

Ideally, we would like to see that you possess the following qualities:

- Flexibility to changing tasks and projects as needed
- Problem-solving skills to develop creative technical solutions
- Excellent communication and interpersonal skills
- Eagerness to work and share in a multi-disciplinary team environment
- The addition of diversity to the company through background, experience, interests, etc.

We offer competitive compensation aligned to the candidate experience.

If interested, please email your CV/resume to jobs@bandwidth10.com