



Optosurgical, LLC
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<https://www.optosurgical.com>

Opto/MechE Engineer Intern

Optosurgical, LLC is an early-stage imaging medical device startup that is developing a handheld camera system that can provide structural and functional tissue information to operating surgeons in real-time. We are looking to hire a highly motivated graduate student for a full-time/part-time summer internship opportunity, with the potential to extend into the fall semester.

An ideal candidate will have a strong background in: Optical System Design (Zemax, LightTools software experiences), Mechanical Engineering and Prototyping, Electrical Engineering, Biomedical Engineering, or a related field. If interested, the candidate will be exposed to various aspects of what it's like to grow a startup from the ground up (R&D, Optical system integration & prototyping). Work will be performed primarily in our Columbia, Maryland office. Pay is commensurate with experience (minimum \$17/hr). Our close-knit team is excited to welcome the talented applicant and grow our venture together!

Specific duties and responsibilities:

- Opto-mechanical design using Zemax and Solidworks or similar software platform.
- Fast prototyping related to imaging medical device & components.
- Assist in day-to-day logistical and operational tasks related to the R&D projects.
- Perform stakeholder interviews and usability testing.
- Device testing and data collection in the lab setting and operating rooms at partner hospitals.
- Stay up to date with relevant research and prepare weekly/monthly updates for the team.

Required qualifications:

- Strong written and verbal communication skills
- Fast-prototyping experience
- Optical simulation & design skills
- Demonstrated CAD skills (Solidworks, 3D prototyping)
- Flexibility with assigned tasks and duties
- Candidates must be legally authorized to work in the United States on a full-time/part-time basis for the duration of the work without sponsorship.

Ideal applicants will have:

- Experience working with Regulatory (FDA) and/or Quality Management Systems documentation / medical device manufacturing
- Python, Java, and/or Matlab programming experience are pluses
- Understand basic ideas and terms of optical imaging
- Usability testing experience + familiarity with usability documentation (IEC 62366, etc.)
- Familiarity with optical technology: Hyperspectral imaging, Near-infrared imaging, Laser speckle imaging
- Familiarity with medical field: thyroid surgery, liver surgery, abdominal surgery, bowel surgery

Application Process

- Interested applicants should send their resume and cover letter to:
Yoseph Kim, Chief Executive Officer
Optosurgical, LLC yoseph.kim@optosurgical.com
- Deadline to apply: February 29, 2024