



**VentriFlo, Inc.** We are a medical device company with a core group of talented engineers and professionals. We're experienced in developing diverse medical components including blood handling disposables, instruments, and blood pumping systems.

Headquartered in Pelham, NH we are creating a new, pulsatile blood pump for extracorporeal circulatory support applications (i.e., heart-lung machines). The VentriFlo® True Pulse Pump™ is being designed to improve both short-term and long-term outcomes for pediatric and adult patients who require cardiopulmonary support during surgery or in the ICU. In addition, VentriFlo pumps aim to reduce the length of hospital stays and decrease associated costs.

VentriFlo, Inc. recognizes the important role that company culture plays in supporting both the individual and the team. VentriFlo, Inc. respects the individual, their ideas and experiences, and each day we benefit from our staff's diverse perspectives in strengthening competitive and creative advantages. Our supportive environment is based on integrity, mutual respect, trust and teamwork while valuing individual differences.

We're working in a fast-paced medical device marketplace where the details make the difference.

### **JOB SUMMARY**

**Position:** Paid Internship / Co-op

**Full Time / Part Time:** Full Time, 4-8 month position preferred

**Job Description:** Electrical/Software Engineering INTERN

Are you an Electrical, Computer, or Software Engineering student interested in getting hands-on experience working on the development of a medical device? As an Engineering INTERN at VentriFlo, Inc. you'll work as a key member of our multi-disciplinary, engineering team to advance the development of our novel medical device. The ideal candidate for this position will have a experience in multiple areas of software and electrical (power, digital, analog) engineering.

You will gain experience performing tasks similar to entry-level engineers. These may include, but are not limited to, risk management, project coordination, team action-item follow-up, and other engineering assignments that support design reviews, change requests and adjunct services.



**Job Functions (role likely to include some or all of these):**

- Assisting with creating and maintaining schematic designs, drawings, BOMs (bills of materials) and other required documentation for the device
- Writing and documenting well-defined functions in C and/or C++ in accordance with company standards
- Participating in circuit-board and code debugging
- Inspecting and reviewing other engineers' designs and code
- Building and releasing code for testing from the common code repository
- Generating release notes
- Running life and performance testing of the device in the lab (non-biological fluids)
  - This includes setting up and running tests, compiling, analyzing and reporting data
- Updating and creating new lab test setups
  - Assemble new pump test configurations, and may also contribute to modifications and designing improvements
  - Collaborate closely with our ME, EE and SW teams
- Generating documentation
- Keeping team informed of progress and possible issues
- Completing work assignments in a thorough, consistent and punctual manner
- Adhering to company work hours, policies, procedures, and rules governing professional team behavior
- Maintaining professional relationships with company employees, clients and customers, both internal and external
- Adhering to company and professional ethics governing the handling of confidential information and the observation of confidentiality both during and after internship



### **Required Education & Experience:**

- Currently enrolled in an accredited college / university pursuing a degree in Electrical, Computer, or Software Engineering or related field
- Good interpersonal and communication (oral and written) skills to work effectively with others
- Good organizational, planning and follow-up skills
- Willing to ask for clarification and learn new approaches to familiar problems
- Interest in designing, building, debugging, and/or testing electrical systems and software applications
- Experience writing code in C or C++
- Experience reading schematic designs
- Experience soldering (SMD preferred)
- Experience with multimeters and oscilloscopes
- Proficient with Microsoft Windows and Microsoft Office.

### **Preferred Skills and Education:**

- Completed a minimum of one year of college with a 3.0 GPA (on 4.0 scale) or equivalent academic record
- Interested in a career in medical device development
- Hands-on experience designing, coding, debugging, and/or testing electrical systems and software applications
- Experience with Altium PCB Design software
- Experience using git software repository
- Experience with issue-tracking software, Jira

### **Next Steps**

Interested in working in our fast-paced, collaborative, creative environment? Submit your cover letter and resume to [InternJobs@VentriFlo.com](mailto:InternJobs@VentriFlo.com)

We look forward to hearing from you!