Job Posting:166483 - Position: S25 Servo Software Intern 166483B

Co-op Work Term Posted:	2025 - Summer
App Deadline	02/13/2025 09:00 AM
Application Method:	Through Employer Website
Posting Goes Live:	01/31/2025 11:14 AM
Job Posting Status:	Expired

ORGANIZATION INFORMATION

Organization	Intuitive Surgical, Inc
Country	Canada

JOB POSTING INFORMATION

Placement Term	2025 - Summer
<b> Job Title <b>	S25 Servo Software Intern 166483B
Position Type	Co-op Position
Job Location	Sunnyvale, CA
Country	United States
Duration	4 months
Work Mode	In-Person
Salary Currency	US
Salary	0.0 per hour for 0 Major List
Salary Range $	$99,840-$133,120
Job Description	

Company Description

At Intuitive, we are united behind our mission: we believe that minimally invasive care is life-enhancing care. Through ingenuity and intelligent technology, we expand the potential of physicians to heal without constraints.

As a pioneer and market leader in robotic-assisted surgery, we strive to foster an inclusive and diverse team, committed to making a difference. For more than 25 years, we have worked with hospitals and care teams around the world to help solve some of healthcare's hardest challenges and advance what is possible.

Intuitive has been built by the efforts of great people from diverse backgrounds. We believe great ideas can come from anywhere. We strive to foster an inclusive culture built around diversity of thought and mutual respect. We lead with inclusion and empower our team members to do their best work as their most authentic selves.

Passionate people who want to make a difference drive our culture. Our team members are grounded in integrity, have a strong capacity to learn, the energy to get things done, and bring diverse, real world experiences to help us think in new ways. We actively invest in our team members to support their long-term growth so they can continue to advance our mission and achieve their highest potential.

Join a team committed to taking big leaps forward for a global community of healthcare professionals and their patients. Together, let's advance the world of minimally invasive care.

Job Description

Primary Function of Position:

The da Vinci™ surgical system uses many interconnected processors that generate, consume, send, and receive all kinds of data. Some of this is critical, real-time servo data, some is message data used on the embedded system, and some is data that is consumed by downstream processes not on the system. The goal of this position/project is to (1) better understand and quantify

the current data communication bottlenecks, and (2) to make improvements, both in the communication network design itself, as well as in the way it is used by developers and by software and firmware applications, to transmit data more efficiently and reliably.

Essential Job Duties

• Collaborate with technical domain experts to understand the data messaging architecture and the various data transfer it supports. Quantify the start-up and steady-state messaging profile.
• Identify improvements to ensure the integrity of highly critical data and to mitigate existing bottleneck exposures.
• Develop infrastructure and tools to aid software developers in identifying first principle solutions to their data transfer requirements such that overall system data integrity is maintained.

Qualifications

Required Skills and Experience
• Excellent working knowledge and practice using Modern C++ and Python
• Familiarity with a Linux development environment
• Comfort and demonstrated experience with RTOS and inter-process communication best practice
• Experience analyzing large data sets
• Experience with Machine Learning algorithms

University Hiring Program Eligibility Requirements:
• University Enrollment: Must be currently enrolled in and returning to an accredited degree-seeking academic program in the Fall.
• Internship Work Period: Must be available to work full-time (approximately 40 hours per week) during a 10-12 week period starting May or June. Specific start dates are shared during the recruiting process.

Required Education and Training
• Current enrollment in a Computer Science, Computer Engineering, or related degree-seeking program at the Master's level. Bachelor's level students would also be considered based on specific relevant experience.

Working Conditions
Mustbe able to interact with computers, robotic systems and accessories in a laboratory environment.

Preferred Skills and Experience
• Familiarity with embedded Linux and QNX operating systems
• Experience using modern code repository systems

Additional Information

Due to the nature of our business and the role, please note that Intuitive and/or your customer(s) may require that you show current proof of vaccination against certain diseases including COVID-19. Details can vary by role.

Intuitive is an Equal Employment Opportunity / Affirmative Action Employer. We provide equal employment opportunities to all qualified applicants and employees, and prohibit discrimination and harassment of any type, without regard to race, sex, pregnancy, sexual orientation, gender identity, national origin, color, age, religion, protected veteran or disability status, genetic information or any other status protected under federal, state, or local applicable laws.

EEO and AA Policy

We will consider for employment qualified applicants with arrest and conviction records in accordance with fair chance laws. We provide market-competitive compensation packages, inclusive of base pay (paid at an hourly rate), benefits, and a housing allowance. It would not be typical for someone to be hired at the top end of range for the role, as actual pay will be determined based on several factors, including relevant skills and experience for this internship, degree-seeking academic program (PhD, Master's, Bachelor's, etc), year in school, and location. The hourly rate is prorated against the intern program salaries listed and total program compensation will be based on internship duration.

Base Salary Range Region 1: $118,560 USD - $133,120 USD
Base Salary Range Region 2: $99,840 USD - $112,320 USD
Shift: Day
Travel: None
Workplace Type: Onsite - This job is fully onsite.
Citizenship Requirement N/A

APPLICATION INFORMATION

Application Procedure   Through Employer Website
Cover Letter Required?   Yes
Address Cover Letter to   Hiring Manager
Special Application Instructions

Application Link: https://careers.intuitive.com/en/jobs/744000038927275/JOB10546/servo-software-intern/
Please click the "I intend to apply to this position" button on SCOPE and also submit your application via the employer's website.
Applications are accepted on a rolling basis and the posting may be expired at any time by the employer as submissions are received.
Students should submit their applications as soon as they are ready.