



# The Taylor Collaboration

Orthopaedic Research • Education • Innovation

## Research, Engineering, & Device Development Internship

This is a Full-Time Year-Long Training Program. Our rotations are three-months long.  
We provide stipends for housing, transportation, and meals.

	<i>First Rotation</i>	<i>Second Rotation</i>	<i>Third Rotation</i>	<i>Fourth Rotation</i>
<b>Focus</b>	Biomechanical Research	Business Development	Design Control	Project Management
<b>Stipend</b>	\$16.32/hour	\$16.32/hour	\$16.32/hour	\$16.32/hour

### Each rotation will develop the following skills:

Biomechanical & Clinical Research	Fluoroscopy Operation
Journal Club Presentation & Discussion	Laboratory Organization and Cleanliness
Business Plan Development	Basic Surgical Instrumentation
Medical Device Design Control	Medical Terminology
Cadaver Dissection Safety	Concepts of Data Acquisition
Machine Shop Standards	Statistical Analysis and Hypothesis Testing

### Work Schedule

8 hours per day, inclusive of a 30 minute unpaid lunch break.  
 Start times and End times are 9 a.m to 5 pm, but may vary between 7 am to 8 pm respectively  
 Will occasionally be required to work 12 hours to meet deadlines  
 Overtime within 4 hours will be compensated at 1.5 times the hourly rate  
 Breakfast/ Dinner is provided during overtimes earlier than or exceeding, 8 a.m and 6 pm respectively.  
 Paid Company Holidays are provided. Paid Time off is accrued at a rate of 8 hours per 160 non-overtime hours worked.

**Responsibilities are listed in the Job Description on the following page.**

### Alumni:

<b>Taylor Sandoval</b> Cornell, Mech. Eng. Masters	<b>Connor Purviance</b> K2M, R&D Engineer II	<b>Robin Parrish</b> DRev, Design Engineer	<b>Audrey Martin</b> Dartmouth, Mech. Eng. PhD
<b>James Barry</b> Medtronic Spine, Case Specialist	<b>Andreas Peritos</b> Zipline Medical, Mfg. Eng.	<b>William Camisa</b> Medtronic Endoscopy, Sr. R&D Eng	<b>Roman Dimov</b> Stanford, BS

Email your Cover Letter and Resume to [jobs@taylorcollaboration.org](mailto:jobs@taylorcollaboration.org)  
Please include your first and last name in the filename for both resume and cover letter.

Our application deadline is Rolling on a monthly basis.

<b>The Taylor Collaboration</b>	<b>Job Description</b> REDDI Intern	<b>Job ID</b> HR JOB-09
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<b>Job Title</b>	REDDI Intern	<b>Job Summary</b>
<b>Department</b>	Biomechanics	REDDI stands for Research, Engineering, and Device Development Internship.
<b>Supervisor's Title</b>	Director	Interns develop skills in Biomechanics, Journals, Design, & Business Development
<b>Last Modified</b>	April 2022	Interns rotate for 3, 6, 9, or 12--months, with varying Responsibilities & Stipends.

**1. Responsible for all aspects of assigned projects at Taylor**

Cadaver-based biomechanical research projects  
Journal clubs  
Co-Authorship of several peer-reviewed publications  
Monday morning One-on-Ones for Problem-Solving and Approval to Proceed  
Tuesday 6:30 am Ortho Surgery Anatomy Lab (primarily summer)  
Wednesday lunchtime Staff Meetings  
Thursday 7:00 am Ortho Spine Conference Journal Presentation & Lecture Presentation  
Delegate tasks and manage monthly intern support  
Clinical research projects  
Observe orthopaedic surgeries (as needed)  
Business plan projects  
Medical device design projects

**2. Responsible for operational tasks assigned by supervisors**

Participating in lab clean-up  
Adhere to operational task schedule

**3. Responsible for wet lab operations for the lab**

Maintain proper organization of wet lab equipment and tools  
Ensure a safe and effective working environment  
Ensure specimens are ordered and tracked for assigned projects in a timely manner

**4. Responsible for administrative aspects of the lab**

Follow the established guidelines for purchasing and purchase tracking  
Participate in lab marketing campaigns

**5. Education & Experience**

Enrolled or graduated from a bachelor's degree program.  
Previous lab research is preferred.  
Background in biomechanics (courses taken), or machine shop skills (preferred), working with hands to build things.  
Mechanical Engineering or Bio/Biomedical Engineering (preferred).

**6. Knowledge, Skills, & Abilities**

Ability to work with biological tissue (human cadaver-models for orthopaedic surgery uses)  
Knowledge of principles of engineering and mechanical design  
Knowledge of principles of data acquisition and study design  
Familiarity with common machine shop equipment such as CNC milling, lathing, bandsaw, drill/tap  
Strong scientific writing capabilities  
Ability, especially under pressure, to be professional, courteous, and tactful in dealing with staff and clients.  
Ability to establish clear priorities and multi-task in a high-volume setting responsive to externally generated deadlines.  
Exceptional ability to meet multiple deadlines in a fast-paced, academic environment.  
Strong analytical and problem-solving skills.  
Effective verbal and written communication skills.  
Strong customer-service skills with ability to find and implement creative, compliant solutions to satisfy customer needs

**7. Physical Capabilities**

Occasionally exerts up to 30 pounds of force and/or exerting a small amount of force to lift, carry, push, pull and move objects.  
Involves walking or standing for periods of time.

**8. Environmental Conditions**

Scientific laboratory / engineering / manufacturing setting.