



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>
Focus	Biomechanical Research	Business Development	Design Control	Project Management
Stipend	\$16.32/hour	\$16.32/hour	\$16.32/hour	\$16.32/hour

Each rotation will develop the following skills:

Biomechanical & Clinical Research
Journal Club Presentation & Discussion
Business Plan Development
Medical Device Design Control
Cadaver Dissection Safety
Machine Shop Standards

Fluoroscopy Operation
Laboratory Organization and Cleanliness
Basic Surgical Instrumentation
Medical Terminology
Concepts of Data Acquisition
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:

Taylor Sandoval
Cornell, Mech. Eng. Masters

Connor Purviance
K2M, R&D Engineer II

Robin Parrish
DRev, Design Engineer

Audrey Martin
Dartmouth, Mech. Eng. PhD

James Barry
Medtronic Spine, Case Specialist

Andreas Peritos
Zipline Medical, Mfg. Eng.

William Camisa
Medtronic Endoscopy, Sr. R&D Eng

Roman Dimov
Stanford, BS

Email your Cover Letter and Resume to 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.

The Taylor Collaboration	Job Description REDDI Intern	Job ID HR JOB-09
---------------------------------	--	----------------------------

Job Title	REDDI Intern	Job Summary
Department	Biomechanics	REDDI stands for Research, Engineering, and Device Development Internship.
Supervisor's Title	Director	Interns develop skills in Biomechanics, Journals, Design, & Business Development
Last Modified	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.

The Taylor Collaboration	Note: This job description may not describe all job functions. They may change from time to time.	Page 2 of 2
---------------------------------	--	-------------