

JOB TITLE

Summer Research Assistant | Dept. of BME at SPRI | Vail, Colorado, USA

COMPANY

Department of Biomedical Engineering
Steadman Philippon Research Institute
Vail, Colorado, USA

<https://www.sprivail.org/departments/biomed-engineering>

JOB SUMMARY

The BME Summer Research Assistant provides technical, scientific, and general operational support to Biomedical Engineering research projects. The Summer Research Assistant will support many aspects of BME research activities through various duties including: research project planning and design, data acquisition, data processing/analysis, manuscript drafting and submission, and preparation of abstracts/posters/presentations. Specific activities vary by assignment. Additionally, the Summer Research Assistant will occasionally support the activities of the SPRI Surgical Skills Laboratory.

CLASSIFICATION

This is a temporary (summer—3 month), full-time, non-exempt position without benefits.

JOB START DATE

May/June (annually)

PRIMARY JOB RESPONSIBILITIES:

- Conduct research under the primary direction of the Director of Biomedical Engineering and secondary direction of departmental staff and investigators.
- Collaborate with Biomedical Engineering staff and investigators to plan and design sound research methodologies and experiments.
- Help coordinate research projects using project management skills and collaboration with staff.
- Prepare cadaveric specimens and/or experimental setups for multiple concurrent studies.
- Assist in the process of data collection and analysis using varied instrumentation and software; provide proper documentation and organization to ensure integrity and organization of collected data.
- Apply basic statistical knowledge; understand, interpret, and describe complex data by preparing graphs and tables.
- Participate in the preparation, review, and submission of manuscripts and abstracts for publication.
- Follow policies and procedures established in the SPRI Employee Handbook; adhere to SPRI safety policies.
- Maintain a personal commitment to the Steadman Philippon Research Institute mission and values.

JOB REQUIREMENTS:Technical

- Enrolled as a rising Junior or Senior in a Bachelor's degree program in engineering (biomedical, mechanical) or scientific discipline. Recent college graduates are also encouraged to apply.
- Research experience and practical knowledge of research principles is preferred whether through previous internship, work experience, or coursework. Experience in a biomechanics laboratory, with commonly used biomechanical tools and analytical methods, is preferred.
- Excellent critical thinking skills are required.
- Knowledge of and ability to apply the scientific method is required.
- Knowledge of basic orthopaedic terminology and human anatomy is preferred.

Administrative

- Must be adaptable to unexpected changes and possess strong organizational, interpersonal, verbal, and technical writing skills.
- Self-starter with willingness to work independently and solve problems creatively within job scope.
- Ability to complete multiple projects simultaneously while working under occasionally stressful conditions.

General

- Ability to handle confidential/sensitive information and exercise good professional judgment.
- Translate the organization's vision and values into day-to-day activities, behaviors, and decisions.
- Ability to represent SPRI in a mature and professional manner.

APPLICATION PROCESS

To apply, applicants must submit the following to Travis Turnbull, Ph.D. (tturnbull@sprivail.org): an updated curriculum vitae (3-page max) with a focus on relevant educational background, work experience, academic record of peer reviewed publications and grants, laboratory work experience, computer skills assessment, instrumentation skill sets, and/or programming capabilities. We also require a personal statement (2-page max) detailing how you would contribute to a) the specified job and b) core values of research and education at SPRI. Following our internal selection process, only qualified applicants will be contacted for a phone interview. Letters of recommendation are neither required nor requested at this time. The application process and all associated communications will remain confidential.