

JOB TITLE

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

CLASSIFICATION

This is a temporary (1 year), full-time, non-exempt position with benefits.

JOB START DATE

May (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.
- Coordinate research projects and manage the timing of several concurrent projects using project management skills and collaboration with staff. Advise and direct the efforts of Summer Undergraduate Research Fellows.
- 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

- Bachelor's degree in engineering (biomedical, mechanical) or scientific discipline. Candidates with a master's degree or those in medical school are encouraged to apply.
- Research experience and practical knowledge of research principles is required 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 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 make decisions independently and solve problems creatively within job scope.
- Ability to manage and 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 the specified role and core values of research and education at SPRI. Following our internal selection process, only qualified applicants will be contacted for the phase 2 interview. A list of references will only be requested for individuals that advance beyond the phase 2 interview. The application process and all associated communications will remain confidential.