

Position: Research Scientist

Company: Sport Product Testing (Canadian Sport Institute Alberta)

Location: Calgary, Alberta, Canada

Position Type: Permanent, Full-Time

About Us: At Sport Product Testing (www.sportproducttesting.com), we are dedicated to advancing the field of sports science and technology by delivering unbiased and objective third-party product testing for companies seeking best-in-class testing and validation services. With deep expertise in biomechanics, physiology, and human perception research applied to footwear, apparel, wearable technology, and sporting equipment, SPT provides rigorous, independent testing and analysis as a standalone research & development team. Our affiliation with the Canadian Sport Institute Alberta gives SPT unparalleled access to a world-leading Olympic and Paralympic training environment, state-of-the-art labs, world-class athletes, and leading experts in the fields of sport science and medicine.

Job Description: The Research Scientist leads and oversees applied research projects from concept to completion, bringing scientific rigor, strategic thinking, and technical expertise to all phases of the research process. This role is responsible for developing research methodologies, analyzing complex datasets, and generating insights that drive project outcomes for both internal teams and external clients. The Research Scientist plays a key leadership role within the group, mentoring Research Technicians and practicum or internship students, and contributing to a collaborative, fast-paced environment where multiple projects and tight timelines are the norm.

Education:

- Minimum of a Master's degree in human movement science or a related field (biomechanics, kinesiology, exercise physiology, biomedical engineering, or similar).
 - PhD considered an asset.
-

Skills & Abilities:

- Proficiency with biomechanics and exercise physiology systems and equipment (e.g., 3D motion capture, force plates, IMUs, metabolic carts, ECG, pressure insoles, etc.).
- Advanced programming and data analysis skills (e.g., MATLAB, R, Python) with strong knowledge of statistical methods.
- Ability to work collaboratively in a fast-paced, flexible environment.
- Strong understanding of research methodologies in biomechanics, exercise physiology, and/or human perception, particularly as applied to sport and health product testing.
- Ability to work collaboratively in a fast-paced, flexible environment.
- Skilled in working with human participants and managing applied data collection.
- Proven ability to apply creative and innovative approaches to problem-solving.
- Exceptional verbal and written communication skills.
- Strong organizational, time-management, and attention-to-detail skills.

Key Responsibilities:

Project Leadership

- Work closely with Research Scientists and the Senior Research Scientist to lead and execute research projects, including planning, protocol development, recruitment, data collection, analysis, and interpretation.
- Manage multiple projects simultaneously while adhering to timelines and deliverables.

Methodology Development & Data Analysis

- Develop, refine, and enhance data collection, processing, and analysis methodologies.
- Perform advanced statistical and computational analyses to extract meaningful insights from complex datasets.
- Critically assess data quality and troubleshoot data collection systems as needed.

Data Management & Oversight

- Work with the research team to ensure rigorous standards in data collection, processing, and data management are consistently met.
- Provide technical and scientific oversight throughout the full data lifecycle.

Communication & Knowledge Translation

- Collaborate with Research Scientists, the Senior Research Scientist, and Project Manager to communicate project progress to clients and internal stakeholders.
- Synthesize results into high-quality technical reports, presentations, and peer-reviewed manuscripts.

Mentorship & Team Support

- Mentor and provide scientific guidance to Research Technicians, practicum students, and interns.
- Support professional development and ensure high-quality execution of research tasks across the team.

Lab & Participant Management

- Work with the research team to maintain clean, organized, and efficient lab spaces.
- Ensure professional, respectful interactions with study participants throughout all stages of participation, from informed consent to follow-up.

Compensation & Benefits

- Full-time position with a competitive salary commensurate with experience.
 - Three (3) weeks of paid vacation annually.
 - Comprehensive benefits package.
-

How to Apply: Please submit a cover letter and resume/CV to spt@csialberta.ca with the subject line “SPT Research Scientist Position”.

Deadline for Application: February 13, 2026