UNIVERSITY OF CALGARY

FACULTY OF KINESIOLOGY

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Post Doctoral Fellowship - Sport Biomechanics – University of Calgary

Area: Sport Biomechanics
Duration: One-year – second year renewable
Start Date: Immediate

The **Human Performance Laboratory** in the **Faculty of Kinesiology** at the **University of Calgary** is accepting applications for a Postdoctoral Fellow in **Sport Biomechanics**.

Job Description:

The primary role of the applicant will be coordination and management of a research project investigating the sport surface requirements of female, male and youth athletes. The project will incorporate wearable sensors as well as conventional motion capture systems to monitor and collect data on athletes during sport on artificial turf surfaces. The applicants primary focus will be:

- Collection of wearable sensor data of a large sample of female, male and youth athletes
- Organize/coordinate data collection and storage of the large amounts of data recorded by wearable sensors.

Secondary requirements of the applicant will be:

- Organization of testing sessions in the Human Performance Lab as well as potential off-site locations with various coaches/athletes/participants in order to complete high performance sport-related testing.
- Leading personnel responsible for data collection sessions that could consist of the use of 3D Motion Analysis Systems, pressure measurement systems, timing lights, and other equipment.
- Performing data analysis and assisting in the writing and presentation of scientific results.

Qualifications:

- PhD or equivalent in Engineering, Biomechanics, Computer Science or a related field
- Expertise in biomechanical research related to athletic equipment.
- Experience in coordinating large scale research projects.
- Experience working with large data sets.
- Expertise with Matlab, Python, or similar programming language
- Expertise in data analytics, IMU data processing; algorithm development related to human movement is not required but is beneficial.
- Strong technical experience in kinematic and kinetic data collection systems
- High level of effective organizational, time and personal initiative skills, teamwork, accuracy, and strong attention to detail

Application details:
Interested candidates are encouraged to submit a curriculum vitae, a 1-page research statement and three references by email to: b.wannop@ucalgary.ca

The research group of Dr. Bill Wannop, within the Human Performance Laboratory in the Faculty of Kinesiology at the University of Calgary is accepting applications for a graduate student in the thesis-based Master of Science program. This opportunity is ideal for students passionate about sport biomechanics research with a focus in the footwear/sporting goods industry.

For more information on Dr. Bill Wannop and the Human Performance Lab at the University of Calgary, visit the following links:
https://www.ucalgary.ca/knes_info/profiles/196-9765
https://sportinsight.ca/
https://kinesiology.ucalgary.ca/research/labs-and-centres/human-performance-lab
https://kinesiology.ucalgary.ca/

About the University of Calgary
The University of Calgary is a leading Canadian university located in the nation's most enterprising city where innovative teaching and ground-breaking research go hand in hand, and where we fully engage the communities, we both serve and lead.

To succeed as one of Canada's top universities, where new ideas are created, tested, and applied through first-class teaching and research, the University of Calgary needs more of the best minds in our classrooms and labs.

About Calgary
Named a cultural capital of Canada and one of the best places to live in the world, Calgary is a city of leaders – in business, community, philanthropy and volunteerism. Calgarians benefit from the strongest economy in the nation and enjoy more days of sunshine per year than any other major Canadian city. Calgary is less than an hour's drive from the majestic Rocky Mountains and boasts the most extensive urban pathway and bikeway network in North America.