# THE McCAIG INSTITUTE FOR BONE AND JOINT HEALTH
# CENTRE FOR MOBILITY AND JOINT HEALTH (MOJO) REPORT 2023/24

## INTRODUCTION

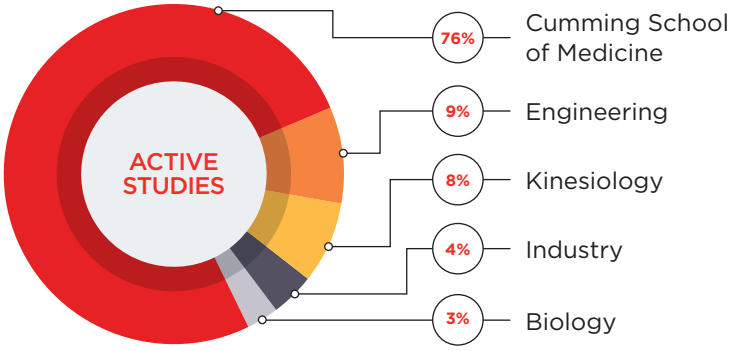
The MoJo offers research teams access to a range of imaging equipment, along with custom protocol development, personalized reporting, flexible appointment scheduling for participants, and imaging access through AYCAN PACS.

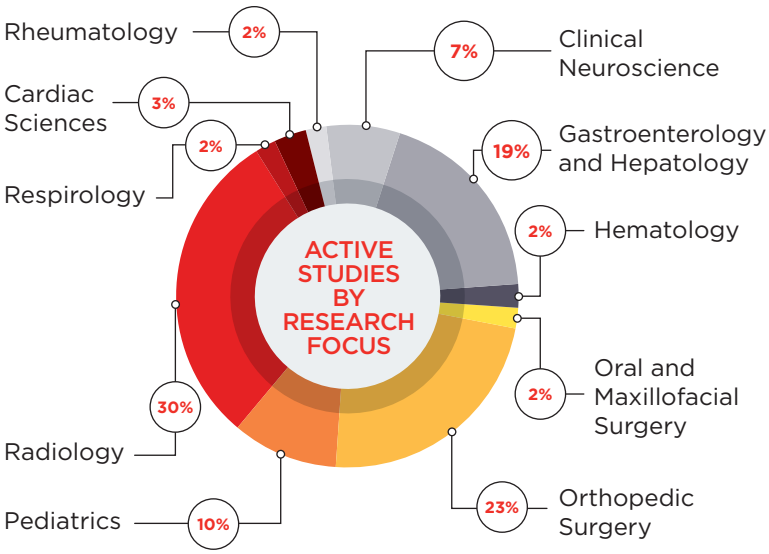
## CPSA ACCREDITATION

In 2023, the MoJo was granted full accreditation from the CPSA (The College of Physicians and Surgeons of Alberta) for bone densitometry, computed tomography, magnetic resonance imaging, radiography and PACS.

## STUDIES

The MoJo is currently supporting over 70 academic and industry research studies and clinical trials.

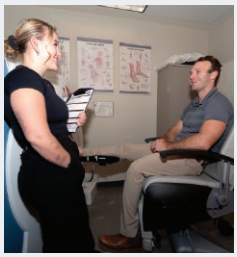



## EQUIPMENT

- X-Ray (GE Discovery XR 656)
- Bi-planar X-Ray (EOS)
- Dual-energy CT (GE Revolution HD GSI)
- Extremity MRI (GE Optima 430s 1.5T)
- DXA (GE iDXA)
- High-resolution peripheral quantitative CT (Scanco XtremeCT II)
- Peripheral quantitative computed tomography (Stratec pQCT)
- Weight-Bearing CT (Curvebeam HiRise)

## ONGOING STUDIES



### CaBHS (Calgary Bone Health Study)

**PI: Dr. Steven Boyd**

*Determine the specific bone density, microarchitectural and strength features of the peripheral skeleton that underpin major osteoporotic fracture.*

**Equipment:** DXA, HR-pQCT

### Rheumatoid Arthritis Triage

**PI: Dr. Sarah Manske**

*Determine whether cone-beam computed tomography could be used to identify rheumatoid arthritis patients at high risk for disease progression.*

**Equipment:** X-Ray, WBCT, HR-pQCT, Ultrasound

### RoWaCaWa (Robotic Walking for Children Who Cannot Walk) Bone Imaging sub-study

**PI: Dr. Leigh Gabel**

**Co-I: Dr. Elizabeth Condliffe**

*Determine if 3 months of robot-assisted walking improves bone density and strength in children who cannot walk.*

**Equipment:** pQCT