

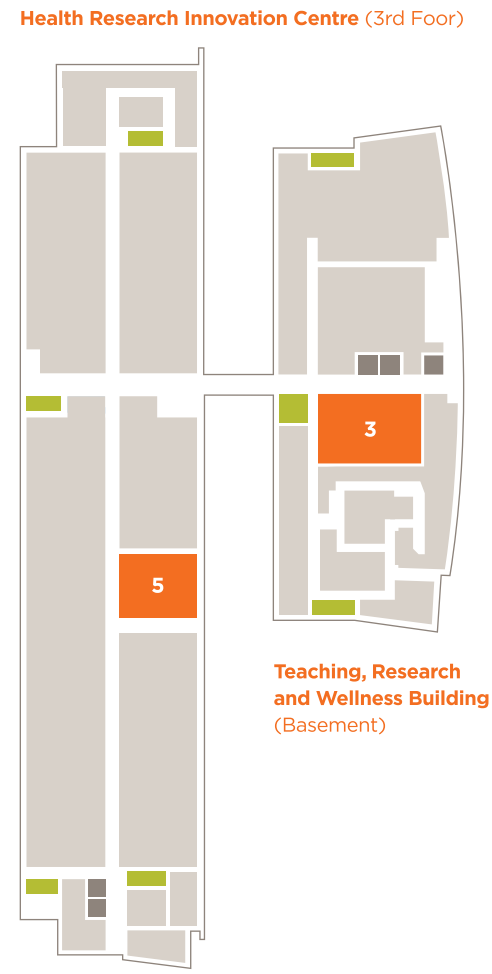
# Centre for Advanced Technologies

Office of the Associate Dean, Research

- 1a. Biomedical Technical Support Centre (BTSC) | Mechanical
- 1b. Biomedical Technical Support Centre (BTSC) | Electronics
- 2. Central Sanitation and Sterilization (CSS)
- 3. Experimental Imaging Centre (EIC)
- 4. Flow Cytometry Facility (FCF)
- 5. Micro CT Laboratory
- 6. Microscopy and Imaging Facility (MIF)
- 7. Southern Alberta Mass Spectrometry Facility (SAMS)
- 8a. University Core DNA Services (UCDNA) | Sequencing
- 8b. University Core DNA Services (UCDNA) | Synthesis
- DS. Distribution Services

## FACILITY MAP

- Room Locations
- Stairs
- Elevators



**The Centre for Advanced Technologies (CAT)** is the Cumming School of Medicine's core facility umbrella. The essential technologies administered under CAT support contemporary biomedical research across diverse areas, including genomics, proteomics, bioinformatics, and cellular and medical imaging.

*CAT is sponsored by the University of Calgary's Cumming School of Medicine and also receives support from the Faculty of Veterinary Medicine. All services are provided on a cost recovery basis; differential fee structures may apply to non-university or non-faculty users.*

## CORE FACILITIES

### Biomedical Technical Support Centre (BTSC)

**Services:** Electronics and mechanical support; preventative maintenance, repair, design and fabrication.  
**Location:** HSC B822 (electronics); HSC B816 (mechanical)  
[ucalgary.ca/btsc](http://ucalgary.ca/btsc)

### Central Sanitation and Sterilization (CSS)

**Services:** Lab ware washing, autoclave services, biohazard waste, laundry and surplus giveaway.  
**Location:** HSC B852  
[ucalgary.ca/medcss](http://ucalgary.ca/medcss)

### Centre for Genome Engineering

**Services:** Embryonic stem cell, transgenic, molecular and cell mutagenesis facilities; knock-out, knock-in or targeted transgenics using conventional and nuclease mediated gene targeting.  
[ucalgary.ca/mousegenomics](http://ucalgary.ca/mousegenomics)

### Experimental Imaging Centre (EIC)

**Services:** High resolution MR and other imaging modalities facilitating imaging in vivo at near cellular levels.  
**Location:** TRW P2  
[ucalgary.ca/eic](http://ucalgary.ca/eic)

### Flow Cytometry Facility (FCF)

**Services:** Comprehensive and technically sophisticated cell analysis and sorting; user-operated facility with training and education provided.  
**Location:** HSC B016  
[flowcytometry.cat-ucalgary.ca](http://flowcytometry.cat-ucalgary.ca)

### Health Sciences Animal Resources Centre (HSARC)

**Services:** Infrastructure and expertise in laboratory animal use and care in accordance with standards set by the Canadian Council on Animal Care.  
[ucalgary.ca/animalhealth](http://ucalgary.ca/animalhealth)

### Micro CT Laboratory

**Services:** X-ray based micro-CT systems for 3-D visualization of solid specimens; expertise in 3-D measurement techniques and biometric techniques for characterization of shape variation.  
**Location:** HRIC 3A29  
[ucalgary.ca/microct](http://ucalgary.ca/microct)

### Microscopy and Imaging Facility (MIF)

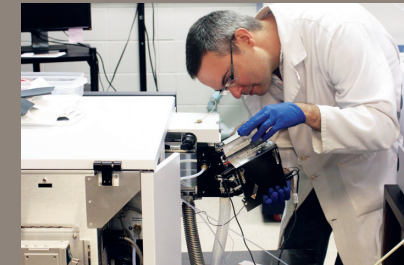
**Services:** Transmission electron microscopy, scanning electron microscopy, advanced light microscopy, atomic force microscopy, including single cell force spectroscopy, and advanced image processing for 3D electron and light microscopy.  
**Location:** HSC B130  
[ucalgary.ca/mif](http://ucalgary.ca/mif)

### Southern Alberta Mass Spectrometry Facility (SAMS)

**Services:** Optimized sample processing with tailored mass spectrometry methods delivering high-quality protein identification data with a short turn-around time.  
**Location:** HSC B014  
[sams.ucalgary.ca](http://sams.ucalgary.ca)

### University Core DNA Services (UCDNA)

**Services:** Oligonucleotide synthesis, DNA sequencing and genetic analyses, next-generation genome-scale sequencing.  
**Location:** HSC B002 (synthesis); HSC B104a (sequencing)  
[ucalgary.ca/dnalab](http://ucalgary.ca/dnalab)



**CUMMING SCHOOL OF MEDICINE**  
Office of the Associate Dean, Research

**Centre for Advanced Technologies**  
5th Floor, Teaching, Research and Wellness  
2500 University Drive NW  
Calgary, AB T2N 1N4 | CANADA

[cumming.ucalgary.ca/research/CAT](http://cumming.ucalgary.ca/research/CAT)