



ARTHUR J.E. CHILD COMPREHENSIVE CANCER CENTRE

GALGARY, AB

QUICK FACTS

- + Healthcare Facility
- + Design-Build
- + Laboratory Spaces
- + LEED® Gold
- + Multi Award-Winning
- + Over One Million Square Feet
- + \$1.4 Billion Budget
- + Work with Alberta Infrastructure
- + Smith + Andersen Mechanical
- + Sustainability Services (Footprint)





ARTHUR J.E. CHILD COMPREHENSIVE CANCER CENTRE

ABOUT THIS PROJECT

- + Centralizes treatment and care for cancer patients.
- + 160 inpatient beds, 13 Linear Accelerator (LINAC) vaults, two innovation treatment vaults, more than 100 patient exam rooms, and more than 100 chemotherapy chairs.
- + Engaged as a key member of the mechanical consulting team.
- + Ambitious energy targets and construction milestones required an integrated design approach, allowing team members across disciplines to collaborate in real time.
- + Leverages air handling unit (AHU) with energy consumption of approximately one watt per CF, and low flow plumbing fixtures throughout the building.
- + Equipped each vault and MRI room with a pre-action sprinkler system.
- + Dedicated equipment on site provides domestic water, natural gas, sanitary systems, steam, chilled water, and pneumatics.
- + Equipped isolation rooms and departments to maintain pressure controls across adjacent areas to avoid contamination.
- + Key factors in the facility design include mercury reduction, enhanced air quality, environmental site assessments, and direct exterior access and places of respite.
- + Designed laboratory fume hood exhaust, nuclear exhaust, and hazardous material exhaust systems to safely and effectively remove the contaminate at the source.

HOT BUTTONS

HEALTHCARE

DESIGN REVIEW

INPATIENT ROOMS

TREATMENT VAULTS

MRI ROOM

LABORATORIES

DESIGN-BUILD

SUSTAINABLE



LOCATION

Calgary, AB

SMITH + ANDERSEN SERVICES PROVIDED

Mechanical, Sustainability
(Footprint)

KEY TEAM MEMBERS

Alberta Infrastructure
Alberta Health Services
DIALOG
Stantec
PCL Construction

SIZE

1,367,000 sq. ft. (127,000 sq. m.)

BUDGET

\$1.4 Billion

COMPLETION YEAR

2023

CERTIFICATIONS

LEED® Gold

AWARDS

Building Engineering -
Institutional Award of Excellence
(2025)

Sustainable Design- Award of
Merit(2025)

Building Transformation
Innovation Spotlight Awards,
Project Delivery, Asset
Management & Lifecycle Award
(2022)

American Concrete Institute
Alberta Chapter Awards, Award
of Excellence in Concrete –
Buildings Category (2022)

CanBIM Innovation
Spotlight Awards, Design &
Engineering (2018)