

## Pre-Planning Enables Facility Optimization

### UNIVERSITY OF ALBERTA

#### Design Build for High Tech Research Space



The University of Alberta redeveloped existing research space into a hot lab with a cyclotron particle accelerator. For this extremely complex project, the University used the Best Value Model for selection, pre-planning, and performance measurement.

The Best Value pre-planning process resulted in significant savings and optimization of facility operation. As a result of the pre-planning process, the contractor identified & minimized unforeseen design and constructability risks before the project began.

*“Best Value saved 14-18 months in schedule and \$8-12M in cost when compared with traditional processes that would have resulted in change orders during construction” – Hugh Warren, Dir. Facilities & Operations*

Using Best Value IPD, the project will be completed in approximately 18 months at \$28M, whereas owner estimates of using a traditional delivery model would place the project at 48 months and \$44 – 48M.

**Cost Savings:** 35%  
**Schedule:** 60% reduction  
**Contractor Change Orders:** 0%

**Type:** Design Build Construction  
**Contractor:** Stuart Olson Dominion Construction, LLC  
**Location:** Edmonton, Canada

**Contract:** \$21,000,000

**Start Date:** October 2011  
**Completion Date:** December 2012

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