

A New Cyclotron

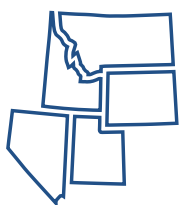
CRITICAL FOR CLINICAL RESEARCH & CARE

How Your Donation Helps



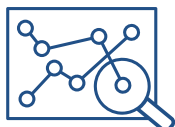
FULFILLS A TIME-SENSITIVE NEED

Huntsman Cancer Institute's (HCI) only cyclotron is 17 years old and rapidly approaching the end of its life. The average lifespan of a cyclotron is 10 to 14 years.



ENSURES REGIONAL ACCESS TO A HEALTH-CARE ESSENTIAL

The cyclotron provides patients from Utah, Nevada, Wyoming, Idaho, and Montana with lifesaving radioactive particles. To date, nearly 150,000 patient doses have been manufactured and utilized by healthcare providers throughout the region. This demand continues to increase. "We are the sole medical cyclotron and PET radiopharmaceutical manufacturer in the Intermountain West," says Buckway. "We provide a critical supply of PET drugs for Utah and neighboring states that enables PET/CT scans to be performed on patients."

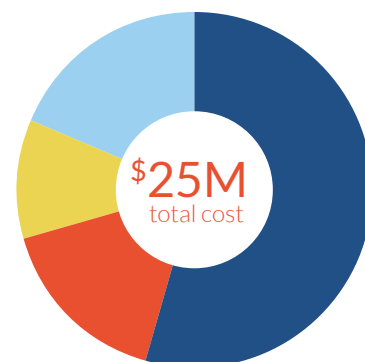


SPURS ADVANCEMENTS IN CANCER RESEARCH AND BEYOND

HCI's one cyclotron facility generates the radioisotopes needed for all clinical trials in the region that utilize PET imaging. In addition to cancer, the cyclotron is used for clinical care and research in dementia, Alzheimer's, cardiovascular disease, and more. "Our field is experiencing unprecedented growth in the development of new PET drugs that are increasingly specific for certain cancer types," says Buckway. His team is on the forefront of this innovation: they've received Food and Drug Administration approval to manufacture eight and counting radiopharmaceuticals for HCI clinical trials.



Brandon Buckway, PhD, HCI's director of cyclotron operations. Buckway's team produces compounds researchers use to measure and observe exactly what is happening in a tumor or diseased tissue in real time. As demand from oncologists and other researchers increases, Buckway says, "there will only be more growth and diversity of the products we supply." His team, he adds, gets a glimpse of the whole process: "We are truly at the bench-to-bedside interface of drug development. Not many have had that opportunity in their careers."



PUBLIC SUPPORT

Cyclotron replacement: \$14M

HCI INVESTMENT

Annual operations: \$4.5M

Construction space to house new cyclotron: \$3.9M

Updated PET/CT imaging equipment: \$2.6M