The St. Jude Red Frog Events Proton Therapy Center is the cornerstone of a four-year, $200 million project to enhance our commitment to innovative research, treatment and collaboration:

- Located 60 feet underground
- Constructed over 36 months
- Required 1.5 million construction (staff) hours
- Red Frog Events committed $25 million to the center
- The particle accelerating technology was provided in partnership with Hitachi, Ltd., a global company with a long track record in medical innovation.
- Proton therapy is the most advanced form of radiation available for patients.
- Proton therapy uses protons, positively charged particles produced from hydrogen gas by removing an electron.
- Proton therapy uses a small, precise beam of radiation to target the tumor, sparing surrounding healthy tissue.
- The technology is housed in the GANTRY 3 STORIES TALL
- WEIGHS 100 TONS
- Proton therapy is the most advanced form of radiation available for patients.
- Proton therapy is used to treat a variety of pediatric cancers:
  - Brain Tumors
    - Medulloblastoma
    - Ependymoma
    - Craniopharyngioma
    - Low-Grade Gliomas
  - Ewing Sarcoma
  - Hodgkin Lymphoma
  - Neuroblastoma
  - Retinoblastoma
  - Rhabdomyosarcoma

The technology travels from the synchrotron to the treatment room.

The protons are then directed to a patient’s tumor in a beam with sub-millimeter accuracy.

The protons are accelerated up to 2/3 the speed of light in a machine called a synchrotron.

PROTON THERAPY JUST FOR KIDS

The St. Jude Red Frog Events Proton Therapy Center is the first of its kind dedicated solely to children.

Proton therapy uses a small, precise beam of radiation to target the tumor, sparing surrounding healthy tissue.