



# The Center for BRIGHTBEAMS

“When you join CBB you are joining a community that embraces students of all genders, races, backgrounds, and ethnicities.”

A NATIONAL SCIENCE FOUNDATION SCIENCE & TECHNOLOGY CENTER

Join the only interdisciplinary center addressing fundamental challenges for creating brighter particle beams.

Apply at: [tinyurl.com/REUCBB](https://tinyurl.com/REUCBB)

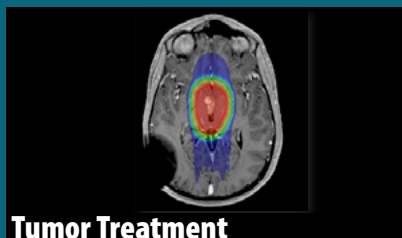


## WHY CHOOSE THE CENTER FOR BRIGHT BEAMS?

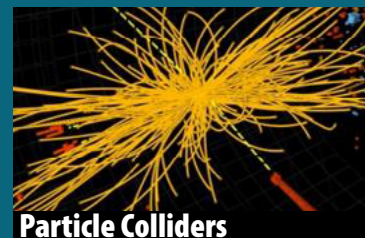
Bright x-ray and electron beams power today’s scientific research and industry.

With more than 20 faculty across multiple institutions and disciplines, CBB provides a stimulating academic environment that fosters collaboration.

One in three Nobel Prizes in Physics and Chemistry is awarded to research that utilizes bright particle beams.



Tumor Treatment



Particle Colliders



Molecular Movies



Semiconductor Fabrication



**Contribute** to cutting-edge research at world leading institutions.

**Experience** interdisciplinary research, working side-by-side with material scientists, chemists, condensed matter physicists and accelerator scientists.

**Learn** alongside individuals from a wide range of nationalities, cultures and educational backgrounds. CBB continuously works toward the inclusion of underrepresented minorities, women, and first-generation students.

**Explore** high demand career opportunities.

CBB students conduct research at the forefront of interdisciplinary research in a supportive team environment.

## CBB RESEARCH THEMES

**Beam Production –** Develop the new knowledge needed to produce brighter beams.

**Beam Acceleration –** Explore superconductivity in extreme conditions.

**Beam Dynamics and Control –** Control beams using machine learning and other advanced techniques.



LEARN MORE ABOUT US

