HAMPTON UNIVERSITY
PROTON CANCER INSTITUTE
Cancer and Research Center

40 Enterprise Pkwy,
Hampton, VA 23666
757•251•6800
hamptonproton.org

Hampton Proton Enhances Precision Cancer Care with New CT Imaging System
New GE Revolution Apex CT supports more precise radiation planning and a more comfortable imaging experience for patients

Hampton, VA (January 29, 2026) – The Hampton University Proton Cancer Institute (Hampton Proton) has completed a months-long effort to refurbish its Imaging Suite and install a GE Revolution Apex system, a state-of-the-art computed tomography (CT) unit that plays a critical role in how each patient's treatment is planned. The milestone was officially marked with a ribbon-cutting ceremony held on Wednesday, January 28.

The system is now fully operational, allowing patients to benefit from the enhanced imaging and precision the new technology provides. This investment reflects Hampton Proton's ongoing commitment to advancing precision cancer care while enhancing the overall patient experience through both clinical innovation and a thoughtfully designed care environment.

Upgrading for Better Patient Care

The new CT system was brought into clinical use on December 15, when it was used to support treatment planning for its first patient. It provides highly detailed imaging that allows Hampton Proton's dosimetry and physics teams to accurately define and customize each patient's treatment area, supporting safer and more precise radiation delivery.

The newly installed GE Revolution Apex CT system in Hampton Proton's renovated Imaging Suite.

"The new GE Revolution Apex CT allows our team to capture highly precise images, giving us the data we need to plan each patient's treatment area with greater accuracy," said Biniam Tesfamicael, Director of Physics. "This technology not only enhances the safety and effectiveness of radiation delivery but also helps make the imaging process smoother and more comfortable for patients."

The facility's previous machine, a combined PET/CT scanner, underwent a disassembly and removal process in October 2025. The multi-day effort required the unit to be taken apart in sections, with each piece weighing about 2 tons, and had to be maneuvered and expertly disposed.

Previous PET/CT System at the start of the removal process in October 2025.

The unit had to be expertly removed in pieces, each of which could weigh around 2 tons.

Upon removal of the previous unit, Hampton Proton's Imaging Suite was completely renovated by GC Construction, completed with new flooring, cabinets and counters. During this process, patients continued to receive care with scans completed in a mobile CT unit located on-site.

Advanced Technology for Precision Treatment

The GE Revolution Apex CT replaces Hampton Proton's previous combined PET/CT system with a dedicated imaging platform designed specifically for radiation treatment planning. Dual-energy imaging improves tissue characterization and provides more accurate data for

physics modeling and dosimetry calculations, supporting highly individualized treatment plans.

“We look forward to continuing to work with [Hampton Proton] in the years to come and to help improve cancer care at this treatment center,” said Nick Batt, CT Region Leader for GE Health Care.

Advanced artifact-reduction technology enhances image quality for patients with metal implants, including those with bilateral hip replacements, allowing clinicians to more clearly visualize the treatment area while protecting surrounding healthy tissue.

The system also integrates with C-RAD technology to support four-dimensional CT (4DCT) imaging, which captures tumor motion during a patient’s natural breathing. This capability is especially important for tumors affected by movement, such as those in the lungs or abdomen, and allows clinicians to plan treatment with greater accuracy.

Supporting Patient Comfort and Care

The installation of the new CT system also represents a significant investment in patient experience, pairing advanced imaging capabilities with a newly renovated Imaging Suite designed to promote comfort and ease.

Erin Erdos, Scott Berry and Biniam Tesfamicael

"Our priority is delivering care that is both precise and compassionate," said Erin Erdos, Director of Clinical Operations. "The new GE Revolution Apex CT enhances imaging accuracy, which directly supports a more comfortable environment for our patients. It includes innovations

designed to ease the scanning process for those who may be anxious, while advanced technologies like iterative reconstruction and tin filtration provide high-quality images at a lower radiation dose, ensuring safer and more effective treatment."

Now fully integrated and operational within Hampton Proton's refreshed Imaging Suite alongside its MRI, the new CT system allows patients to benefit from precise imaging that supports high-quality, individualized cancer care. This upgrade reflects Hampton Proton's continued investment in technology and care models that support precision, safety, and patient-centered treatment.

"This is a special milestone for our cancer center from a quality perspective," said Executive Director Scott Berry during the ribbon-cutting event. "Enhancing the quality of our imaging directly improves our treatment planning and delivery. Our top priority is always providing the best possible care for our patients."

###

ABOUT HAMPTON UNIVERSITY PROTON CANCER INSTITUTE

The Hampton University Proton Cancer Institute, Cancer and Research Center (Hampton Proton) is a leading cancer treatment and research facility dedicated to advancing the fight against cancer. As pioneers in proton therapy and cutting-edge research, Hampton Proton provides compassionate care and precise treatments to patients while driving scientific discovery in the field of oncology. Headquartered in Hampton, Va., Hampton Proton, the eighth such center established in the country, is the only proton center owned and operated by a historically Black college and university (HBCU) and is committed to excellence in patient care guided by innovative research, advocacy, access to care and better outcomes. The institute treats several different types of cancer, including breast, prostate, pediatric, lung, head & neck, ocular, brain & spine and gastrointestinal.

For more information, visit hamptonproton.org.

Media Contact: Lourdes Hernandez
Marketing Specialist II
Hampton University Proton Cancer Institute
Lourdes.Hernandez@hamptonproton.org