

Bankhead-Coley Cancer Research Program

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*2009 Program
Bridge (1-year project)*

Project Title: The RCET System: An Information Technology Infrastructure for Advanced Radiotherapy

Project Summary: The primary goal of the Resource Center for Emerging Technologies (RCET) is to provide technical infrastructure necessary to improve radiotherapy patient outcomes. The advanced medical informatics technology used in the design of the RCET infrastructure can facilitate education, collaboration, and peer review, as well as provide an environment in which researchers can receive, share, and analyze anonymized voluminous multimodality diagnostic images, treatment planning images, radiotherapy plan data, and demographic information instantaneously via World Wide Web. The confluence of these endeavors will lead to improved patient care. The RCET will provide resources that will facilitate inter-institutional collaborative research in advanced-technology radiation therapy while maintaining patient confidentiality, timeliness of data submission, and optimal utilization of resources. A broader yet germane objective is to make these resources available to radiation oncologists in the community and at remote sites to get expert advice from their clinical peers. This is likely to improve the quality of care for a broad spectrum of often underserved radiotherapy patients around the world.