The goal of the Cancer Imaging Program at the University of Arizona Cancer Center is to use the tremendous power of imaging technologies, methods and applications to increase patient survival and prevent and cure cancer. The Cancer Imaging Program works to improve imaging tools in the study of cancer biology, increase sensitivity and specificity of early cancer detection methods and develop and implement more effective cancer therapies using imaging biomarkers and image-guidance.

The Cancer Imaging Program has outstanding research projects exploring all of the major types of imaging—nuclear and x-ray imaging, magnetic resonance imaging, optical imaging and ultrasound imaging—as well as the development of advanced imaging contrast agents.

A key component to the Imaging Program is its translational aspects. An interdisciplinary team of researchers works together to take new imaging techniques and discoveries into the clinic. Projects include development of new instruments for optical imaging of ovarian cancer, new ways to measure tumor response to therapy by CT, MRI and ultrasound, and the development of new diagnostic imaging agents.