

## The key features of the Human Imaging program:

- Highly selective evaluation of MD candidates with the desire and talents to integrate research and clinical care into an outstanding academic career.
- Graduate school education and residency training that are integral parts of clinical departments to promote efficiency and shorten the training period.
- A minimum of one-year graduate degree credit given for already completed medical school course work.
- A reduction of one year in clinical training prior to obtaining American Board of Radiology certification is achieved by using the ABR research "Holman" track.
- A further year of time is saved by eliminating time lost in reorientation between clinical and research phases of other M.D./Ph.D. program designs.
- Efficient curriculum schedule reduces the typical 4-year radiology residency and 5-year Ph.D. program from 9 years to a total of 6 years for the typical student.
- Research training that is directly pertinent to the clinical research life style introduces participation in all aspects of the biomedical research culture.
- Research dissertation produces peer-reviewed papers in medical journals pertinent to academic environment and future academic employment of graduates in medical school departments.

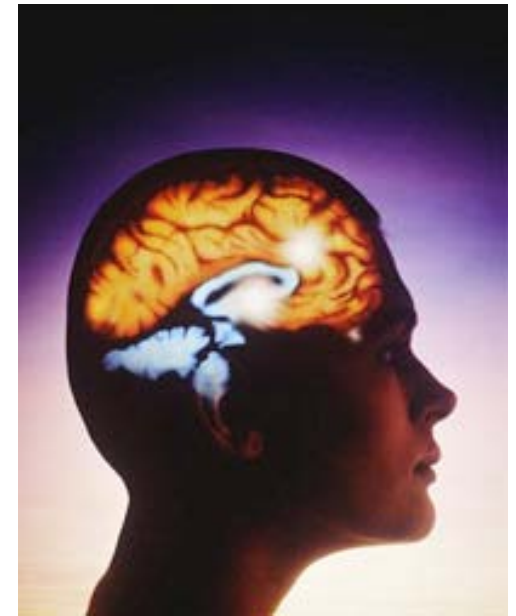
7/20/01

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## Dual Medical Residency and PhD Program in Human Imaging

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## Human Imaging

**Residency in Radiology, Psychiatry or Radiation Oncology and PhD in Radiological Sciences**

The University of Texas Health Science Center at San Antonio (UTHSCSA) in Texas invites applications for a new combined MD residency /PhD degree program. The intent of this program is to reinvigorate the clinical research infrastructure that previously brought innovations such as CT, MRI, PET, CR and a host of computed imaging techniques. Human imaging research with these devices will be of expanding importance in 21st century medicine.

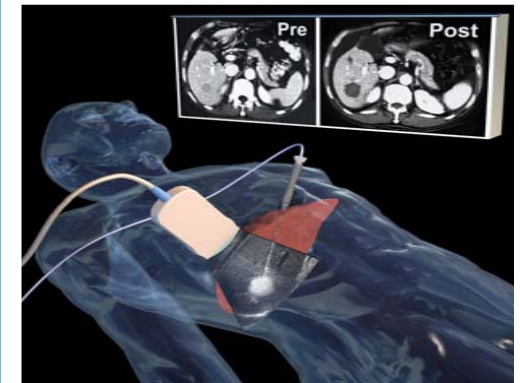
The next steps in the evolution of human imaging based diagnosis and therapy demand greater research effectiveness in medical specialties. This new program combines the proven effectiveness of graduate school research education techniques with rigorous clinical residency training to create a new cadre of research leaders for academic medicine. The PhD degree requires graduate imaging courses in addition to MD basic science courses.



## Radiological Sciences

The graduate program in Radiological Sciences prepares students to participate in the development and transmission of scientific knowledge concerning the uses of radiant energy forms in the diagnosis and treatment of human diseases. Presently more than 45 faculty members work with 40 graduate students on a wide range of research topics and radiation applications. The Human Imaging resident/PhD students study and perform research within dedicated groups of medical physicists, biomedical imaging specialists and biomedical researchers from specialties using imaging as a research tool.

The Radiological Sciences degree offers three sub-specializations: 1) PhD or Master of Science degree in Medical Physics, 2) Master of Science degree in Medical Health Physics, and 3) PhD degree in Radiation Biology that includes the Human Imaging track. A key component of the Human Imaging curriculum is the integration of physicians into research teams at the very beginning of their medical specialty careers. This promotes a smooth transition into productive medical specialty research.



## Research Facilities

The research facilities available to faculty members and students at UTHSCSA extend beyond the University proper through a series of formal and informal research agreements with institutions in San Antonio and the surrounding region. Collaborative agreements such as the Southwest Research Consortium allow synergistic extensions of radiological research into broader areas of scientific, societal, and fundamental human importance. The Radiological Sciences lab for graduate students is fully equipped with computers, computer software, diagnostic quality assurance equipment and a departmental library.

The *Research Imaging Center* includes a fully equipped PET laboratory, a *Magnetic Resonance Imaging* laboratory, an evoked potential laboratory and a *Biomedical Image Analysis* laboratory for brain mapping. The *Cancer Therapy Research Center* includes an *Intensity Modulated Radiation Therapy* facility, a *PinPoint Brachytherapy* facility and a dedicated *Oncology PET Facility*. Other research facilities include those at *Brooke Army Medical Center* and *Wilford Hall Medical Center*.