Magnetic Resonance Imaging

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As noted in Wikipedia:

Magnetic resonance imaging (**MRI**) is a medical imaging technique used in radiology to form pictures of the anatomy and the physiological processes of the body in both health and disease.

MRI scanners use strong magnetic fields, magnetic field gradients, and radio waves to generate images of the organs in the body.

MRI does not involve X-rays or the use of ionizing radiation, which distinguishes it from CT or CAT scans and PET scans.

Magnetic resonance imaging is a medical application of nuclear magnetic resonance (NMR). NMR can also be used for *imaging* in other NMR applications such as NMR spectroscopy.

You can find out more either from Wikipedia link or this book, called The Basics of MRI, by Joseph P. Hornak who is Professor of Chemistry and Imaging

Science at the Rochester Institute of Technology as well as Director of the Magnetic Resonance Laboratory, at the RIT.