

2015 GE Catalyst Awards



GE Healthcare – Summer 2015

GE Healthcare Catalyst Grants are targeted at advanced computational imaging and related technologies. Three awards were announced in the summer of 2015 in the third round of the program.



Roshan D'Souza is an expert in computational analysis using graphics processing units. Working with UWM image processing researchers Zeyun Yu and Vitaliy Rayz, their team will develop a system for managing medical images across time and imaging modalities. Software enabling longitudinal studies provides an opportunity for extracting important medical information from changes in patient physiology.



Adel Nasiri brings expertise in power electronics and control. Nasiri will continue to develop and characterize the load leveling technique developed in previous GE Catalyst grant projects. The technology could lower the burden on electrical systems that supply power for imaging systems, making them less expensive to install and easier to maintain.



Jun Zhang hopes to provide high resolution image enhancement by applying signal processing techniques to low resolution medical images. High resolution medical imaging system require a significant amount of closely packed detectors. Zhang's project has the potential to reduce the number of detectors required to achieve high resolution medical images.