

## REGENSTRIEF CENTER FOR HEALTHCARE ENGINEERING

The Regenstrief Center for Healthcare Engineering was established in January 2005, with start-up funding from the Regenstrief Foundation, to catalyze the transformation of healthcare-delivery systems by applying the principles of engineering, management and science.

### HISTORICAL ACCOMPLISHMENTS

#### Center Funding (2005-2007)

	2005	2006	2007	Total
Income	\$2.5 m	\$3.75 m	\$8.5 m	\$14.75 m
Expense	\$500 k	\$750 k	\$1 m	\$2.25 m
	Purdue gain			\$12.5 m

#### Research

Eighty-two faculty research associates from 11 Purdue colleges have conducted center research.

RCHE is a founding member of the Healthcare Engineering Alliance, a national network of healthcare engineering researchers at the University of South Florida (USF), University of Arkansas (UA), North Carolina State University (NCSTU) and North Carolina A&T State University (NCAT).

#### Partnerships

External collaborative relationships have been established with:

- Ascension Health
- Community Health Network
- IU School of Medicine
- VA
- Indiana State Dept of Health
- St. Vincent Health
- WellPoint Inc.
- IU Medical Group
- Regenstrief Institute
- Indiana Hospital Association

Internal collaboration includes Cancer Care Engineering, e-Enterprise Center, Oncological Sciences Center and PURVAC.

#### Learning

RCHE has significantly contributed to the establishment of the healthcare engineering signature area in the College of Engineering, the healthcare systems concentration in the School of Biomedical Engineering, and the Doctorate of Nursing Practice in the School of Nursing.

#### Engagement

RCHE has played a central role in developing the Healthcare Technical Assistance Program, which has generated over \$2.5 million in revenue since 2005.

### SIGNIFICANT ACTIVITIES 2007-2008

#### RCHE Renewal

The Regenstrief Foundation, which helped found RCHE, renewed funding in the amount of \$11 million over the next 5 ½ years (Jan 2008 – June 2013).

An additional grant provided \$1.35 million to fund Cancer Care Engineering and \$1.1 million for research to improve primary care access and chronic care management. This grant also included funds to improve database and computational services (July 2007 – June 2009).

#### Health Outcomes Research and Policy

The Center for Health Outcomes Research and Policy was established in Fall 2007 as an RCHE sub-center to conduct research on the effectiveness of treatment strategies and interventions to improve patient outcomes and optimize cost efficiency.

#### Center for Assistive Technologies

In late 2007, the Indiana Family and Social Services Administration, Division of Disabilities and Rehabilitation Services contributed \$1.5 million to RCHE to create a Center for Assistive Technologies. The center is working to improve collaboration on assistive technology (AT) innovation, communication within the AT community, and AT evaluation.

#### Core Center Designation

In January 2008, RCHE became a core center within Discovery Park, supporting its own leadership and administrative staff and occupying twenty-five percent of the new Mann Hall.

#### National Partnerships

RCHE has developed new partnerships with the American College of Physicians (ACP) and VHA, Inc. to disseminate research findings on a national level. ACP is the nation's largest medical specialty society with 124,000 members in general internal medicine and related subspecialties. VHA is a healthcare provider alliance of more than 1,400 not-for-profit hospitals and 21,000+ non-acute care organizations nationwide.

### FUTURE ASPIRATIONS

Meeting the needs of Americans with chronic illness has been identified as a major challenge facing the current and future U.S. healthcare system. RCHE's research is increasingly focused on designing and evaluating alternative care models and processes that can provide optimal care for the growing chronic illness population.

RCHE is also working to expand its national influence by proposing innovative research, dissemination and funding partnerships with Veteran's Affairs, Mayo Clinic, the National Science Foundation and the National Institutes of Health.