Program Curriculum

Goal
The goal of the SHD track is to train residents to broadly apply engineering and population health principles to challenges in healthcare delivery. Areas of interest include: clinical decision support, systems engineering, operations research, health informatics, health resource access and utilization for vulnerable populations, cost effectiveness, and human factors engineering.

Objectives
1. To learn engineering and health services research problem solving approaches.
2. To use data to understand and improve healthcare delivery systems.
3. To gain experience working in multi-disciplinary teams, both within and outside of the traditional health care system.

Resident opportunities exist in all ongoing projects:
1. Health informatics based projects in the ED and hospital.
3. Community engagement to optimize health care access and utilization
4. ED data-driven diagnostics
5. Studies of ED or hospital operations