



Healthcare Systems Engineering Coop Positions

Healthcare Systems Engineering Institute
Northeastern University, Boston MA

Description and Responsibilities:

This is an exceptional opportunity to gain rich experience applying industrial engineering and operations research to healthcare, working with some of the best healthcare systems in the U.S. Three to six openings exist for industrial engineering coop students to work in our Healthcare Systems Engineering Institute and with many of the best health systems in Boston. The positions are within a new Center funded by the U.S. Congress and the Centers for Medicare and Medicaid to apply Industrial Engineering methods to important healthcare problems in order to improve care, population health, efficiency, safety, and overall costs. Our partners include the Massachusetts General Hospital, Brigham and Women's Hospital, Boston Medical Center, Atrius Health, Harvard Vanguard Medical Associates, Lahey Clinic, Dana Farber Cancer Institute, Cambridge Health Alliance, MD Anderson Cancer Center, the Beth Israel Deaconess Medical Center, and many others.

Each student will work with senior faculty on multiple projects in leading Boston healthcare systems. You will work on interdisciplinary teams consisting of undergraduate coops, graduate students, clinicians, and healthcare managers. You will gain strong insight and experience in healthcare and industrial engineering - invaluable as you start your careers. Responsibilities include:

- Assist with two or more projects in local health systems
- Support the overall team and project needs, depending on the specific projects
- Data analysis, process observation and flow mapping, six sigma projects, computer simulation, linear programming, queuing analysis, scheduling, staffing, and supply chain management projects
- Assist with preparing project reports and develop professional presentations
- Gain responsibility for certain aspects of each project.
- Provide general ad hoc support for projects as needs arise

Qualifications:

Open to sophomores through seniors. Successful candidates will possess strong industrial engineering methods, ability to work independently and in groups, time management skills, commitment to excellence, a "can do" work ethic, and a desire to make a difference. High quality work standards and task completion are expectations for continued employment.

Time Period: All coop cycles

Further information: For further information about Northeastern University's Healthcare Systems Engineering Institute, please visit www.hsye.org

How to apply: Interested students should email Dr. James Benneyan at chot@coe.neu.edu a cover letter, resume, and transcript. Interviews will occur on an ongoing basis until all positions are filled.