Carnegie Mellon University
Chemical Engineering

John Kitchin
Professor
Chemical Engineering
A diverse, engaged, and enthusiastic community of 90 Ph.D. students, 75 Master’s students, and 200 undergraduates, with 20 faculty committed to providing a high-quality education and cutting-edge research environment.
Research Areas

Leading edge of research and innovation—involving in all major areas of Chemical Engineering, with focus on:

- Air Quality and Environment
- Process Systems Engineering
- Consumer Products
- Health and Medicine
- Energy and Biofuels
Environment

- Average group size: 5 – 6 Ph.D., 2 – 3 MS
- Close knit and collaborative graduate student population
- Chemical Engineering Graduate Student Association (ChEGSA)
- Active and engaged alumni base
- University committed to graduate education. Half of CMU student population is graduate students
Facilities

Centrally housed on CMU’s Pittsburgh campus, facilities feature:

• Shared, state of the art research labs
  – Bioengineering, soft materials, atmospheric particle analysis, catalysis and surface science

• Computing facilities for high-performance computing

• Collaborative and versatile undergraduate laboratories
Professional Development

- Professional development seminar course
- Annual ChEGSA Symposium (40+ years)
- ChemE-specific career workshops
- Career services that focus on graduate student needs
Graduate Programs

Ph.D. training independent researchers equipped to apply chemical engineering principles, as well as advanced analytical and experimental techniques to the solution of open ended problems in academia, industry, and governmental research careers.

MS/MChE excel at numerical methods for solving engineering problems, computational fluid mechanics and transport, process simulation, and optimization.

MS CPS develop laboratory and fundamental skills in the science behind soft materials (colloids and polymers).
College of Engineering

ADVANCED COLLABORATION℠