

Doctor of Engineering

INTRODUCTION

The major objective of the Doctor of Engineering (DRE) program is to prepare students for careers in higher education or research. The program is designed to strengthen the individual's ability to apply creative leadership to the solution of important, complex and contemporary technological problems. Graduates of DRE have assumed positions in industry, government agencies, and in educational institutions.

PROGRAM DESCRIPTION

The DRE is a multidisciplinary program leading to terminal degrees in Chemical and Biomedical, Civil and Environmental, Electrical and Computer, Industrial and Manufacturing, and in Mechanical Engineering. The DRE program also includes Applied Biomedical Engineering program in collaboration with the Cleveland Clinic Foundation. Although the DRE program is administered by the Engineering Dean's office, majority of degree requirements are discipline/concentration specific which are implemented by the departments. A unique feature of DRE is its flexibility which allows some students to pursue the degree on a part-time basis.

RESEARCH

As an advanced degree, the DRE requires an innovative, high-quality applied-engineering research project concluding in a Dissertation. The research can be conducted on-campus or off-campus at locations such as NASA/Glenn Research Center, Cleveland Clinic Foundation, or other industrial/agency research labs. The Fenn College is well-known for hands-on education and emphasis on applied research. Faculty members are very active in research with many ongoing projects funded by national agencies, foundations and industry. Majority of DRE students are involved in sponsored research which usually incorporates financial aid as research assistantships. Since the research activities in the college are too numerous to list and are continually changing, prospective students are strongly encouraged to inquire about projects through individual faculty members or by contacting the departments.

DEGREE REQUIREMENTS

The applicant must hold an MS in engineering or in a related science discipline, such as chemistry, physics, biology, computer science, mathematics,



or an MD. Prospective students with only an undergraduate degree are encouraged to first apply to a masters program in the college. A minimum of 30 credit-hour course-work and 30 credit-hour dissertation research is required for the DRE. There are two general exams; Qualifying exam evaluates mastery of fundamental subject matters in the chosen discipline/concentration, and Candidacy exam in the form of research proposal evaluates readiness for independent research.

For admission information contact:

Cleveland State University
Graduate Admissions Office
2121 Euclid Ave., PH 227
Cleveland, OH 44115
(216) 687-5599

www.csuohio.edu/gradcollege/

For program contact information:

College of Engineering, SH 104
DRE Program Director
(216) 687-2555

<http://www.csuohio.edu/engineering/academics/doctorate.html>