Russ College of Engineering and Technology
Vision and Mission

Dr. Dennis Irwin, Ph.D., P.E.
Dean and Moss Professor of Engineering Education

Purpose: A general statement that differentiates the Russ College from other colleges and indicates our function and constituencies

To educate well-rounded engineering and technology leaders, create and expand engineering and technology knowledge, and support the engineering and technology professions and public concerns.

Vision: How things will look when we get where we want to be, ten or more years in the future

Nationally, the Russ College will be a top choice for students, faculty, and prospective employers of graduates and recognized for its world-class research and scholarly activities in several areas.

Mission: A specific statement that reveals our sustainable competitive advantages and the unique characteristics of what we do best

- **Education**: To provide a learner-centered education, producing graduates who are ready to succeed professionally and contribute to the betterment of our world.
- **Research/scholarship**: To produce focused, collaborative research and scholarship in select areas of strengths.
- **Service**: To contribute to the engineering and technology professions and to serve as a technical resource in matters of concern to the public.

Objectives: Specific elements of the vision, realization of which indicates progress towards our vision

- **Education**: The learner-centered education provided by the Russ College will employ both curricular requirements and extracurricular opportunities. Small class sizes, active learning strategies, and easy access to instructors outside the classroom will facilitate student-faculty and student-student interactions. The college will support and emphasize student participation in research experiences, engineering design projects, co-op assignments, and professional society activities. Graduates will have learned how to learn, will have strong communication and multidisciplinary collaboration skills, and will understand the need to continue their professional development. They will be prepared to contribute to the betterment of the world because they will have learned how engineering solutions fit within cultural and ethical contexts.
- **Research/scholarship**: The Russ College will maintain and build excellence in the research and scholarship areas of avionics, smart civil infrastructures, bioengineering, energy and the environment, and materials and manufacturing. Program quality will be improved by adding Ph.D. degrees in civil engineering, mechanical engineering, and computer science; and by adding a M.S. degree in biomedical engineering.
- **Service**: Faculty and alumni will have an awareness of the social and political implications of engineering and technology; will serve as advisors to government officials and help shape public policy; will assist in technology assessment and management, especially within the southeastern Ohio region; and will participate in and support engineering and technology professional societies.