The broad mission of the Center for Computational Engineering (CCE) is to support computational engineering at MIT. The center is comprised of faculty and research partners from across the School of Engineering as well as other departments and units involved in computational engineering research and education around the Institute.

The center’s research focus is on computational approaches for engineering problems: the formulation and implementation of new approaches that are more efficient and capable, and the informed application of existing approaches to important engineering questions. Our emphasis is on the development of the next generation of computational engineering innovators and computational engineering innovations.

CCE oversees a master’s program in Computation for Design and Optimization (CDO) and a doctoral program in Computational Science and Engineering (CSE). CDO is an interdisciplinary program that provides students with a strong foundation in computational methods for the design and operation of complex engineered systems. The CSE PhD program allows students to specialize in a computation-related field of their choice through focused coursework and a doctoral thesis. The CSE program is offered through a number of participating departments, including Aeronautics and Astronautics, Chemical Engineering, Civil and Environmental Engineering, Mechanical Engineering, and Nuclear Science and Engineering.

For more information about the Center for Computational Engineering, contact Debra Blanchard (drblnc@mit.edu), Room 3-264, 617-258-5808. For more information about the CDO program and/or the CSE PhD program, contact Kate Nelson (cdo_info@mit.edu), Room 35-329, 617-253-3725.