

Board Meeting
September 10, 2020

ESTABLISH THE MASTER OF SCIENCE IN TRANSLATIONAL MEDICAL SCIENCES, CARLE ILLINOIS COLLEGE OF MEDICINE AND THE GRADUATE COLLEGE, URBANA

Action: Establish the Master of Science in Translational Medical Sciences, Carle Illinois College of Medicine and the Graduate College

Funding: The Carle Illinois College of Medicine has considerable faculty, staff, and infrastructure to support the launch of the proposed program and expect that enrollment and revenue growth from tuition will provide the resources needed for any necessary expansion of infrastructure when the program is fully implemented.

The Chancellor, University of Illinois at Urbana-Champaign, and Vice President, University of Illinois with the advice of the Urbana-Champaign Senate recommends approval of a proposal from the Carle Illinois College of Medicine and the Graduate College to establish the Master of Science in Translational Medical Sciences.

The proposed Master of Science in Translational Medical Sciences (MSTMS) will complement the Carle Illinois College of Medicine's M.D. program with additional efforts for teaching translational engineering practices for healthcare problem solving. This one-year program is designed for individuals seeking experience in medical engineering, design, and innovation, including immersion in clinical settings and exposure to clinically-relevant problems in healthcare that are in need of technological solutions. The MSTMS alone will not fulfill standard admission requirements to medical

school. The target student audience will be students who have recently completed undergraduate degrees in engineering or the quantitative sciences as well as non-physician scientists and engineers who plan to pursue a career in the biomedical industry. The proposed program combines clinical immersion with a biomedical capstone design experience. It is expected to appeal primarily to non-medical students pursuing a career path in the medical technology and healthcare industries for which biomedical technology design, medical systems and clinical exposure, and research participation would be a beneficial experience.

The MSTMS curriculum aligns with the high demand for engineering and quantitative science students wanting to apply their skills toward problem solving in medicine and healthcare. The proposed program will give these students the opportunity to take more engineering- and science-based coursework, participate in medical engineering and design research projects, and be involved in a clinical immersion program while networking and being mentored by physicians and medical school faculty.

Current facilities, including library resources, are adequate to support the program. Current Carle Illinois College of Medicine faculty will be invited to teach core MSTMS courses. If needed, additional specialized teaching faculty will be hired with funds provided by program tuition. Non-Carle Illinois College of Medicine faculty teaching core courses will be compensated via service-in-excess or, if preferred by the faculty and supported by their home department, rather than monetary compensation, teaching may count toward the faculty's teaching load. Tuition revenue from the

program is anticipated to be adequate to cover any service-in-excess cost as well as salary of staff necessary to administer the program.

The Board action recommended in this item complies in all material respects with applicable State and federal laws, University of Illinois *Statutes*, *The General Rules Concerning University Organization and Procedure*, and Board of Trustees policies and directives.

The Executive Vice President and Vice President for Academic Affairs concurs with this recommendation. The University Senates Conference has indicated that no further Senate jurisdiction is involved.

The President of the University recommends approval. This action is subject to further review and approval by the Illinois Board of Higher Education.