

Medical Innovation & Entrepreneurship (MIE) Scholarly Concentration

Cooper Medical School of Rowan University

Overview

The purpose of the CMSRU MIE concentration is to train physician innovators who are better prepared to lead and develop transformative health care solutions in the translation of new technologies and treatment strategies to improve health outcomes, enhance patient care, and/or increase efficiency (e.g., devices, therapeutics, treatments, AI in diagnostics, QI, systems, etc.)

Goals

- To prepare our students to be effective leaders in developing and translating novel technologies and/or treatment strategies to patients
- For our students to understand the principles of innovation and entrepreneurship and to have the opportunity to participate in our entrepreneurial community
- To promote self-directed learning for our students through collaboration within our entrepreneurial ecosystem and community

Objectives

- To increase and enhance training activities for medical students to gain significant design, innovation, research, and ‘real world’ entrepreneurship experience
- To provide students with a longitudinal, immersive medical entrepreneurship/innovation experience and project working with an early to mid-stage translational endeavor or start-up company
- To prepare medical students to collaborate in a team environment and participate in the development and implementation of strategies to commercialize technology
- To provide mentorship to medical students interested in innovation and entrepreneurship in their careers
- To enable medical students to have perspective on the challenges of medical technology commercialization

MD Curriculum Requirements

- Complete the Medical Design & Innovation selective in the M1 or M2 year
- Complete a second relevant MIE selective during the M2 year or an MIE elective in M4 year
- Identify a Capstone mentor/project with the help of the SC Director’s Office and complete a longitudinal project with focus on MIE starting in M1 or M2 year

Additional/MD Co-Curricular Requirements

- Attend Medical Innovation & Entrepreneurship Seminars involving guest speakers that will highlight their story and the successful practice of Innovation & Entrepreneurship
- Deliverables - Submit and present capstone project for poster/abstract/oral presentation at a national or international conference OR submit a peer-reviewed manuscript for publication OR be an inventor on a provisional/non-provisional patent OR an author on FDA regulatory pathway application (IND, 510(k), etc)
- Submit and present at the Rowan/Cooper Innovation Center NJ Med Tech Showcase or similar regional showcase or conference each year in the concentration (M1-M4)
- Conduct additional project work
- Submit mentor meeting feedback/forms to SC Director
- Submit a brief annual year in review report each year with narrative highlighting progress on their project and deliverables as well as goals for the year ahead in M1-M3 years
- Submit a brief final report with narrative and deliverables reached (M4)