Master of Science in Translational Research
Entrepreneurial Science Track

Program Overview
The MTR track in Entrepreneurial Science offers trainees the opportunity to translate biomedical research into innovative solutions and to develop approaches to commercialization.

This program provides mentored training in translational research and entrepreneurship by combining didactic and experiential learning in a structured degree program. Graduates of the program are expected to have a more robust entrepreneurial mindset coupled with tangible skills to bring biomedical research to market. The program is designed to support a trainee as they acquire skills in key aspects of: 1) Needs assessment, 2) Idea development, 3) Scientific methodology, and 5) Approaches to commercialization.

Career Development
A community will be organized and the infrastructure will be built to support students with entrepreneurial goals. This consists of team mentoring, a network community of entrepreneurial peers and faculty, and the robust Penn ecosystem.

Mentoring: The MTR program utilizes a team mentoring approach. Trainees are required to select a primary research mentor at application. Upon acceptance, the trainee’s mentoring team will be assembled. The team consists of the Primary Mentor, Secondary Mentors (business, engineering, lab, or clinical mentors), an MTR Program Mentor, and a Biostatistics Mentor. The mentoring team will possess a track record of innovation in order to support the student throughout the spectrum of defining/refining the project, research, development, and approaching commercialization.

Network Community (in development): Entrepreneurial science trainees are also welcomed into a community of likeminded peers, faculty, and business partners. Within this community, trainees can problem solve, share projects, experiences, and best practices, and obtain access to necessary resources. The Penn ecosystem avails of many resources across campus, including affiliations between UPenn, CHOP, and PennMed Centers, Institutes, and Departments.

Internships: Internships will be developed as an optional lab to provide practical experience in various aspects of biomedical entrepreneurship. These may include opportunities at firms specializing in venture capital, intellectual property, or marketing.

Curriculum
- Proposal Development
- Scientific and Ethical Conduct
- Leadership and Career Development
- Introductory Biostatistics

- Entrepreneurship
- Labs
- Electives
- Thesis