Excellence

IMSD Training modules are short, non-credit, active learning experiences that occur throughout the year. Modules are designed to complement students’ discipline-specific training, and help them to develop the technical skills and personal attributes critical to success in graduate training.

Modules are available to all PhD students in Biology and Public Health as part of their professional development.

Each module is led by Brown faculty in partnership with an IMSD Senior Scholar, an advanced PhD student in one of our graduate programs. Scholars serving in these roles receive valuable teaching and mentoring experience.

Training Module Topics
Demystifying the PhD Experience: Strategies for Academic & Personal Success in Graduate School
Reading Scientific Publications
Managing and Sharing Your Research Data
Essential Laboratory Calculations
Navigating a Successful Graduate Career: Professionalism & Etiquette
Professionalism & Career Development: Preparing for the Postdoc Experience
Graphic Presentation of Scientific Data
Beyond the Hypothesis: Experimental Design and Critical Analysis
Designing and Delivering Scientific Presentations
Defending Your Research Proposal and Critiquing Those of Others
Resources, Tools and Basic Techniques in Molecular Biology
Scientific Writing: Key Principles
Introduction to Statistical Analysis of Data
Explaining Research: Effective and Engaging Communication of Science
Further information: http://biomed.brown.edu/imsd/training/

IMSD Seminar Series

Gatherings of the IMSD community of faculty mentors and students include workshops, panel discussions and prominent guest speakers. The program also co-hosts seminar speakers with all of the graduate programs within the Division of Biology & Medicine and within the School of Public Health.

Community

The Graduate School at Brown University is composed of just under 2000 masters and doctoral students from all states and many foreign countries engaged in a wide range of scholarship and inquiry. The diversity of this community is a recognized strength of the University. Commitment to diversity is visible via the structural support and breadth of services offered at Brown to ensure an inclusive learning environment. These include an Institutional Office of Diversity (www.brown.edu/Administration/diversity/programs_struct.html), recruitment and retention programs as well as student activities sponsored by The Graduate School (http://gradschool.brown.edu/) and within the Division of Biology and Medicine (http://biomed.brown.edu/).

Collaboration

The Brown IMSD program partners with the following institutions in preparing students from underrepresented groups for careers in basic biological, biomedical and public health research:

- St. John’s University
- York College of the City University of New York
- North Carolina A&T State University
- The College of Mount Saint Vincent

Research presentations, collaborations, faculty and student visits and co-advising are encouraged as students prepare for graduate school and careers in science.

Direct inquiries to: IMSD@Brown.edu

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Division of Biology and Medicine
IMSD@Brown.edu • http://biomed.brown.edu/imsd/
Join Those Who Share Your Passion for Discovery

Brown University is located in Providence, RI, itself a “Renaissance” city of arts and cross-culturalism with a high number of restaurants per capita. African-Americans comprise 16% of the city's 177,994 residents. About 38% of the city is Hispanic or Latino/Latina and 6% are Asians. Visitors & new residents find a welcoming community with a rich history of celebrating cultural traditions & ethnic diversity.

Brown University is dedicated to ensuring a diverse and inclusive scholarly community. Brown’s IMSD is a research training initiative funded by grant R25GM083270 from the National Institute of General Medical Sciences of the National Institutes of Health from April 2008 – March 2017. The goal of the IMSD is to increase the number of underrepresented students who complete PhD degrees in biomedical research.

Participants are identified from matriculants in the 12 PhD Programs within the Division of Biology and Medicine and the School of Public Health. Participants receive a generous 12-month stipend and benefits, full tuition, health insurance and health fee. In addition, trainees are eligible to receive travel funding support to present their research at scientific meetings.

Our program strives for Excellence, Community and Collaboration.
IMSD provides a personalized, multi-dimensional training experience that features
• Continuous-to-degree advising
• Cutting edge research experience
• Skill-based training modules to complement curriculum
• Strong peer network and mentoring
• Professional development and career planning

Graduate Programs in Biology and Medicine

Biomedical Engineering
 Creates new knowledge and improves human health through cross-disciplinary research and educational activities that integrate the engineering and physical sciences with the life sciences and clinical practice.

Biotechnology
 Studies a range of topics related to the field of biotechnology such as regenerative medicine, drug delivery, stem cells, nerve guidance, and drug discovery. Conducts translational research, from conceptual design through in vivo testing with an eye toward clinical implementation.

Computational Biology
 Seeks to make breakthrough discoveries in the life sciences through the development and application of novel computational, mathematical, and statistical techniques.

Molecular Pharmacology & Physiology
 Studies the underlying mechanisms of basic physiological processes, their structural components, and how drugs affect these processes to develop cures for diseases.

Biostatistics
 Trains students to develop theory and methods for study design, data analysis, and statistical inference; and to apply the methods to address research questions in public health, biology, medicine, and social sciences.

Graduate Programs in Public Health

Biostatistics

Behavioral and Social Health Sciences
Uses behavioral and social science theory and methods to understand contemporary health problems such as obesity, drug & alcohol abuse, smoking, and HIV risk behaviors.

Epidemiology
 Studies the distribution and determinants of disease in populations to generate new discoveries regarding disease causation and to develop community and individual based preventive activities.

Health Services Research
 Analyses the organization, policies, and economic forces affecting health care delivery systems, providers, and consumers with the goal of improving services and influencing policy to create more equitable health outcomes.

IMSD Participant Outcomes
as of Fall 2015
• 43 pre-doctoral trainees supported
• 33% awarded individual fellowships
• 16 earned Ph.D. degrees
• Average time to PhD degree is ~5.5 years

For further information about these graduate programs go to: (http://www.brown.edu/academics/gradschool/programs)