

Quantitative Microbial Risk Assessment Interdisciplinary Instructional Institute

August 5 – 15, 2019
The Ohio State University
Columbus, OH

About the Program:

The Quantitative Microbial Risk Assessment Interdisciplinary Instructional Institute (QMRA III) is a 10-day workshop designed for advanced graduate students, post-doctoral fellows and early career professionals to assimilate scientific data and implement computer programs towards building a risk assessment for assuring safety and health goals. Participants will gain hands-on experience with risk assessment software and work on real-world case studies. The fourth annual QMRA III will be held at The Ohio State University.

COURSE OBJECTIVES:

Obtain skills to perform microbial risk modeling through:

- Attending lectures from top scientists in the QMRA field
- Engaging in specific hands-on exercises
- Collaborating within multidisciplinary teams to conduct a research case study under the mentorship of a program faculty member and teaching assistant.
- Using and contributing to the QMRAWiki (<http://qmrwiki.canr.msu.edu/>)



HAZARD IDENTIFICATION



DOSE RESPONSE



EXPOSURE ASSESSMENT



RISK CHARACTERIZATION



RISK MANAGEMENT

COURSE TOPICS:

- Statistics in risk assessment
- Probabilistic uncertainty analysis
- Use of genomics in QMRA
- Emerging pathogens and diseases of global and clinical significance
- Use of epidemiological data in QMRA
- Multiple media fate and transport models
- Environmental infectious disease transmission modeling
- Dose-response modeling
- Risk perception, communication and management
- And more...

Accepting applications: January 21, 2019 to April 15, 2019 at: <https://events.anr.msu.edu/QMRAIII2019/>
Program Contacts: Dr. Jade Mitchell and Dr. Mark H. Weir at: QMRAIII@anr.msu.edu

- Notice of acceptance will be sent by April 22, 2019
- Registration fee for QMRAIII is \$225
- Registration deadline: May 1, 2019
- For those willing to share a room with another participant, QMRAIII will provide local hotel accommodations. If a private hotel room is desired, QMRAIII will cover 50% of hotel costs.
- Breakfast, coffee and tea will be provided each day.
- A mentoring and collaboration outing is planned for Saturday August 10, 2019.
- Participants are expected to cover their own travel cost and meals that are not included.
- Four travel awards will be provided based on financial need



Tutorials on computer models and applications for risk assessment (*i.e.* R Programming, Crystal Ball, MATLAB, *etc.*) will be included as part of the program.



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National Institutes
of Health

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