

# Integrative Bioinformatics for Investigating and Engineering Microbiomes





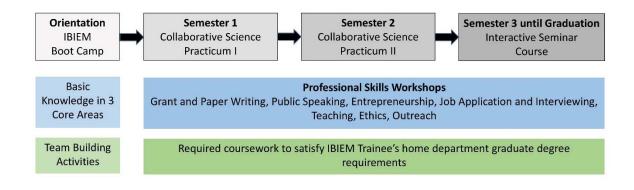


#### What is IBIEM?

IBIEM is an NSF funded **interdisciplinary graduate training program** between Duke University and North Carolina A&T State University which brings together graduate researchers from various fields with an interest in **microbiome research**. Our educational model aims to transcend communication barriers between disciplines and promote team science. Graduate students in microbiology, engineering and other empirical sciences will be cross trained with theorists, model builders and computational scientists.

### What is the training process in IBIEM?

Graduate students become engaged in IBIEM from the onset of their graduate careers. IBIEM Fellows will enroll in: 1) a 2-week **Boot Camp** focused on *strengthening core-area competencies* and *teamwork development*; 2) Two consecutive **Collaborative Science Practica** where IBIEM Fellows work on *team-based projects from various sectors* and; 3) A recurring peer mentoring **Interactive Seminar Course** where IBIEM Fellows receive *continuous feedback on their graduate research*.









## What are the benefits of joining IBIEM?

As IBIEM Fellows, graduate students will be **exposed to a wide range of careers and disciplines** in the biological sciences, engineering as well as bioinformatics and biostatistics fields. During their graduate studies, IBIEM Fellows will participate in a range of **team science experiences** learning and developing cutting edge techniques for analyzing and manipulating microbiomes. In addition to their rigorous academic training, IBIEM Fellows will also participate in a range **professional skills workshops** and be **engaged with the community** through outreach activities aimed at promoting science and engineering to the general public.

## How to Apply?

IBIEM is open to all graduate students at Duke University and North Carolina A&T State University affiliated with a research laboratory and pursuing microbiome related research. IBIEM is not a degree granting program. To be considered for entrance into IBIEM and a **12-month IBIEM Fellowship**, graduate students must have either been accepted into or currently be enrolled in a graduate program of their choice. The application process consists of uploading a current CV, a brief essay and an unofficial transcript to the IBIEM website as well as requesting a recommendation letter from the student's prospective or current advisor be sent to Glenda Kelly (glenda.kelly@duke.edu). More information about the application process can be found on the IBIEM website. Preference will be given to students submitting complete applications by the application deadline. *The IBIEM Selection Committee will inform students and their advisors directly concerning the outcome of their application*.

Participating Units and Programs (Partial Listing)		
Department of Biology, Duke	Department of Civil and Environmental Engineering, Duke	Nicholas School of the Environment, Duke
Department of Molecular	Department of Electrical and	Department of Chemical,
Genetics and Microbiology,  Duke	Computer Engineering, Duke	Biological and Bioengineering, NC A&T
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Department of Biomedical	University Program in Genomics	Department of Biological
Engineering, Duke	and Genetics, Duke	Sciences, NC A&T
Department of Biostatistics and	University Program in Ecology,	Department of Computer
Bioinformatics, Duke	Duke	Science, NC A&T
Department of Computer	Computational Biology and	Joint School of Nanoscience and
Science, Duke	Bioinformatics, Duke	Nanoengineering, NC A&T
Department of Statistical	Program in Cell and Molecular	Program in Evolutionary
Science, Duke	Biology, Duke	Anthropology, Duke

#### How do I Obtain More Information?

More information is available at <a href="http://ibiem.pratt.duke.edu">http://ibiem.pratt.duke.edu</a> or can be obtained by contacting the following representatives.



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Dr. Glenda Kelly, *Program Coordinator*Duke University

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