

# National Biosafety and Biocontainment Training Program (*NBBTP*)

Jessica McCormick-Ell, Ph.D.,  
CBSP, RBP, SM(NRCM)  
*Director, Division of Occupational Health and Safety  
Program Director, NBBTP/IRTA  
National Institutes of Health*

# Intramural Research Training Award (*IRTA*)



# NIH Mission

OFFICE OF  
RESEARCH SERVICES



**To seek fundamental knowledge about the nature and behavior of living systems and the application of that knowledge to enhance health, lengthen life, and reduce illness and disability.**



National Institutes of Health

Where is  
DOHS  
situated  
within  
NIH?

National Institutes of Health (NIH)

Office of the Director (OD)

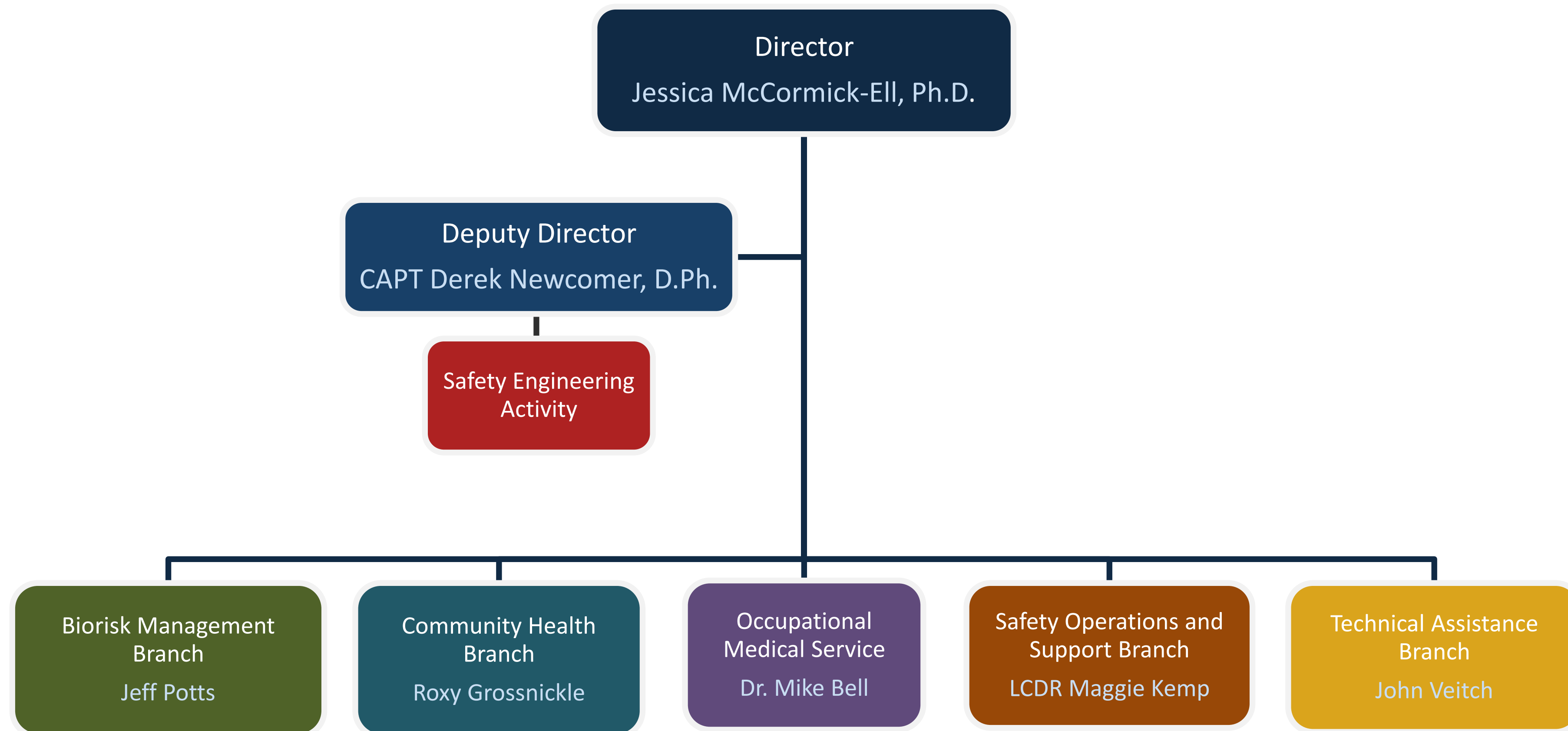
Office of Research Services (ORS)

Division of Occupational Health and  
Safety (DOHS)



# DOHS Organization

OFFICE OF  
RESEARCH SERVICES



# NBBTP/IRTA Overview

OFFICE OF  
RESEARCH SERVICES

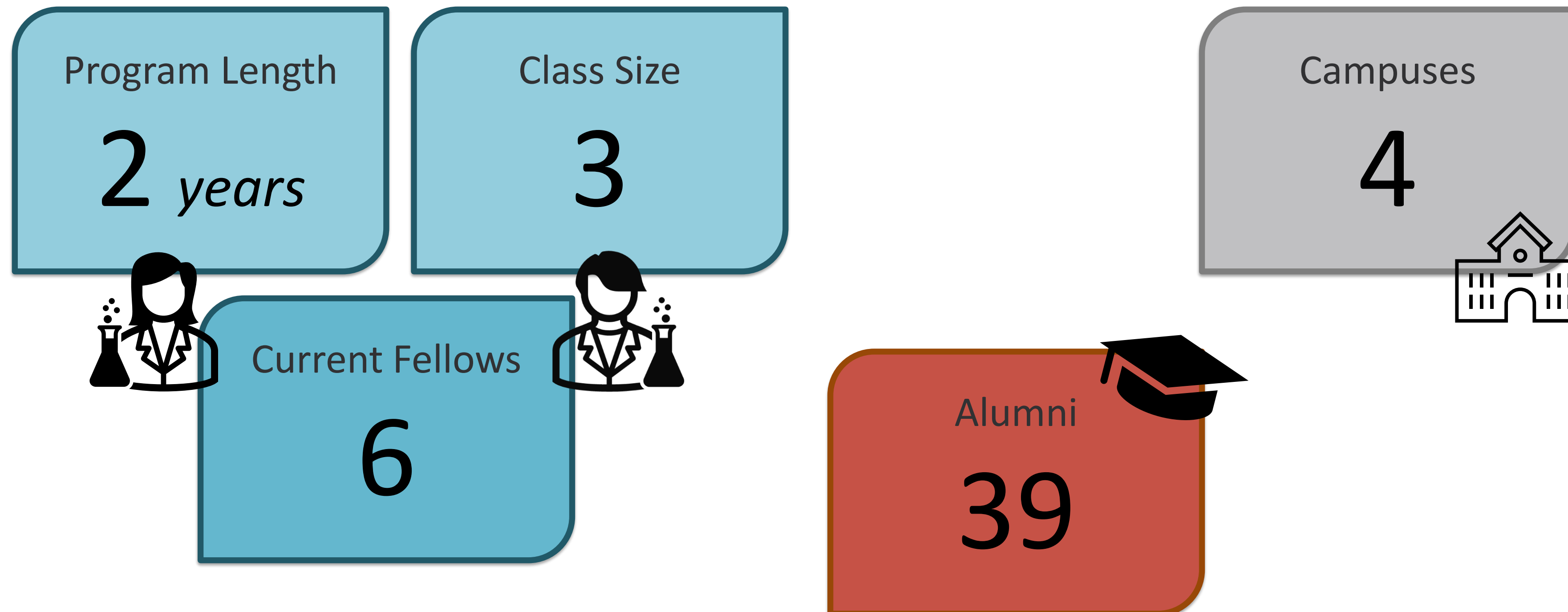
- Established in 2006
- Two-year paid postbaccalaureate and postdoctoral fellowship in Bethesda, MD
- DOHS & NIAID Partnership
- Mission: To develop biorisk professionals who can meet the unique needs of the 21<sup>st</sup> biomedical research community.
- Strategic intent: To graduate scientists capable of leading and directing biorisk management programs.



National Institutes of Health

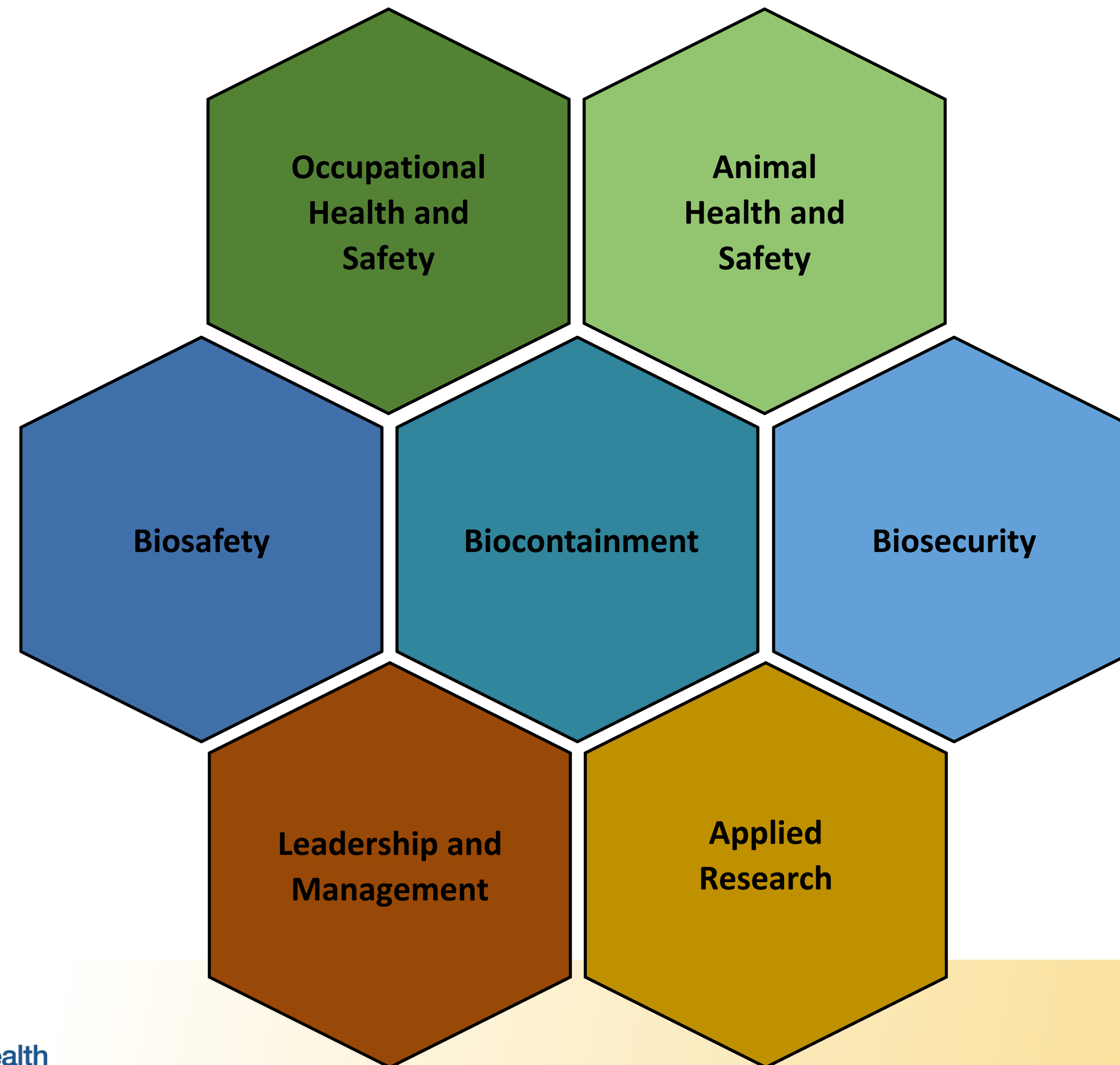
# NBBTP/IRTA at a Glance

OFFICE OF  
RESEARCH SERVICES



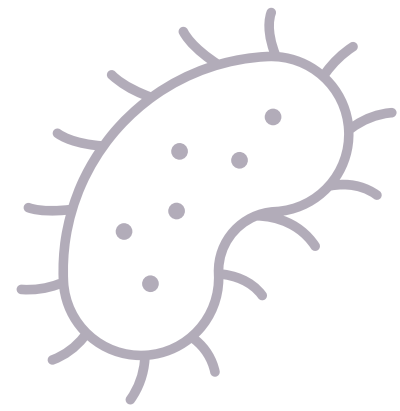
# NBBTP/IRTA Core Program Elements

OFFICE OF  
RESEARCH SERVICES

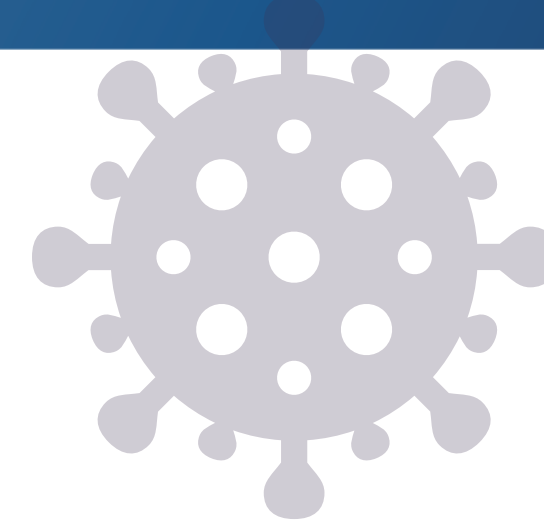
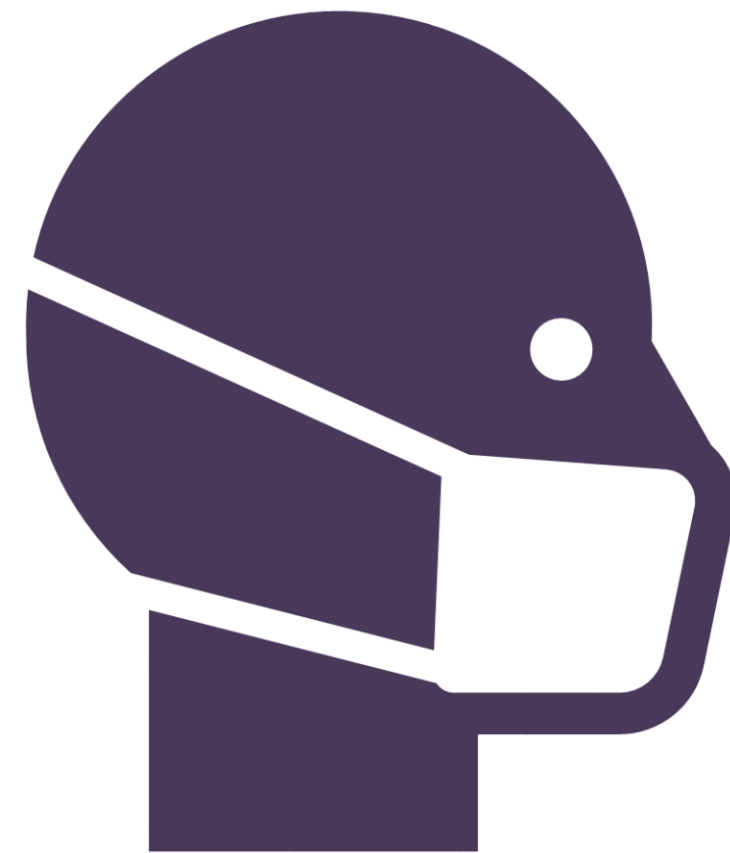


# NBBTP/IRTA Topics

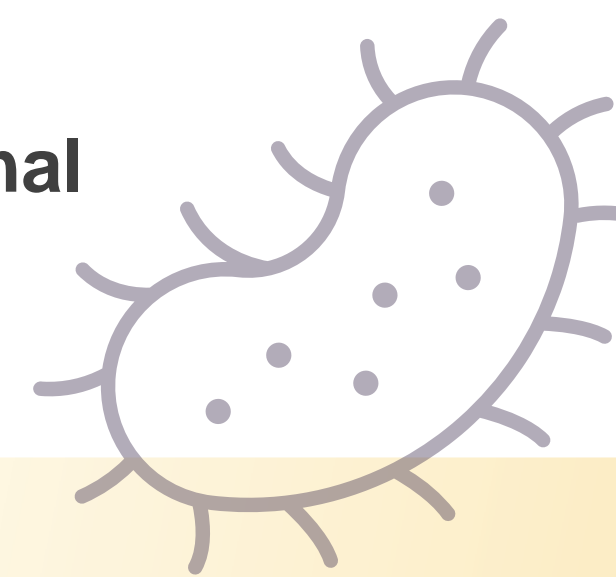
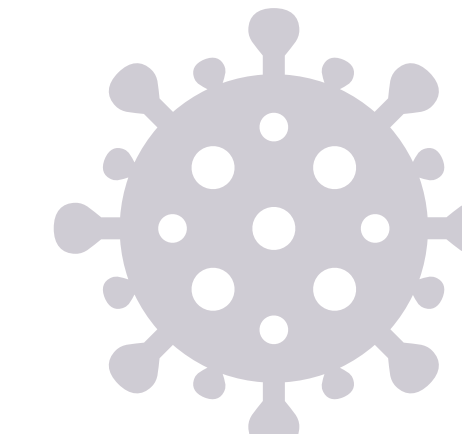
OFFICE OF  
RESEARCH SERVICES



- **Aerobiology**
- **Animal Care and Use**
- **Applied research**
- **Biocontainment**
- **Biosafety**
- **Biosurety**
- **Biorisk**
- **Chemical Hygiene**
- **Communication**
- **Decontamination, Disinfection, and Sterilization**
- **Emergency Management**
- **Engineering for the Biosafety Professional**
- **Geographic Information Systems**



- **Hazardous Materials Packaging**
- **HAZWOPER Training**
- **High-Containment Training**
- **Import, Transfers, Exports**
- **Leadership**
- **Maximum-Containment Training**
- **Media**
- **Occupational Health**
- **Policy**
- **Primary Barriers**
- **Problem-Solving**
- **Risk Assessment**
- **Select Agents and Toxins**
- **Technology Control**





## Year 1: Foundation

Learn core subject matter relevant to the biorisk professional.

### Trainings & Coursework

- Learn basic biorisk elements in trainings ranging from less than an hour to a week or more.

### Guided Activities

- Participate in experiential learning through tours, hands-on application, field work, and projects.

### Conferences

- Attend classes, learn best practices, explore subject matter, and network with colleagues.

### Proposal

- Explore biorisk topics and propose a question you would like to research.



## Year 2: Advancement

Conduct independent biorisk practice and research.

### Trainings & Coursework

- Customize your curriculum by combining advanced courses and electives.

### Developmental Assignments

- Solve real-life biorisk challenges by partnering with high-containment and maximum containment laboratories nationwide.

### Independent Practice

- Gain experience providing dedicated safety oversight to an NIH Institute or Center.
- Apply risk assessment and management strategies to facilitate Institutional Biosafety Committee meetings.
- Practice public speaking and training skills by teaching a safety course.

### Conferences

- Attend classes, learn best practices, explore subject matter, and network with colleagues.

### Capstone

- Complete a capstone project to demonstrate knowledge and contribute to the biorisk enterprise.



# What sets this program apart?

OFFICE OF  
RESEARCH SERVICES

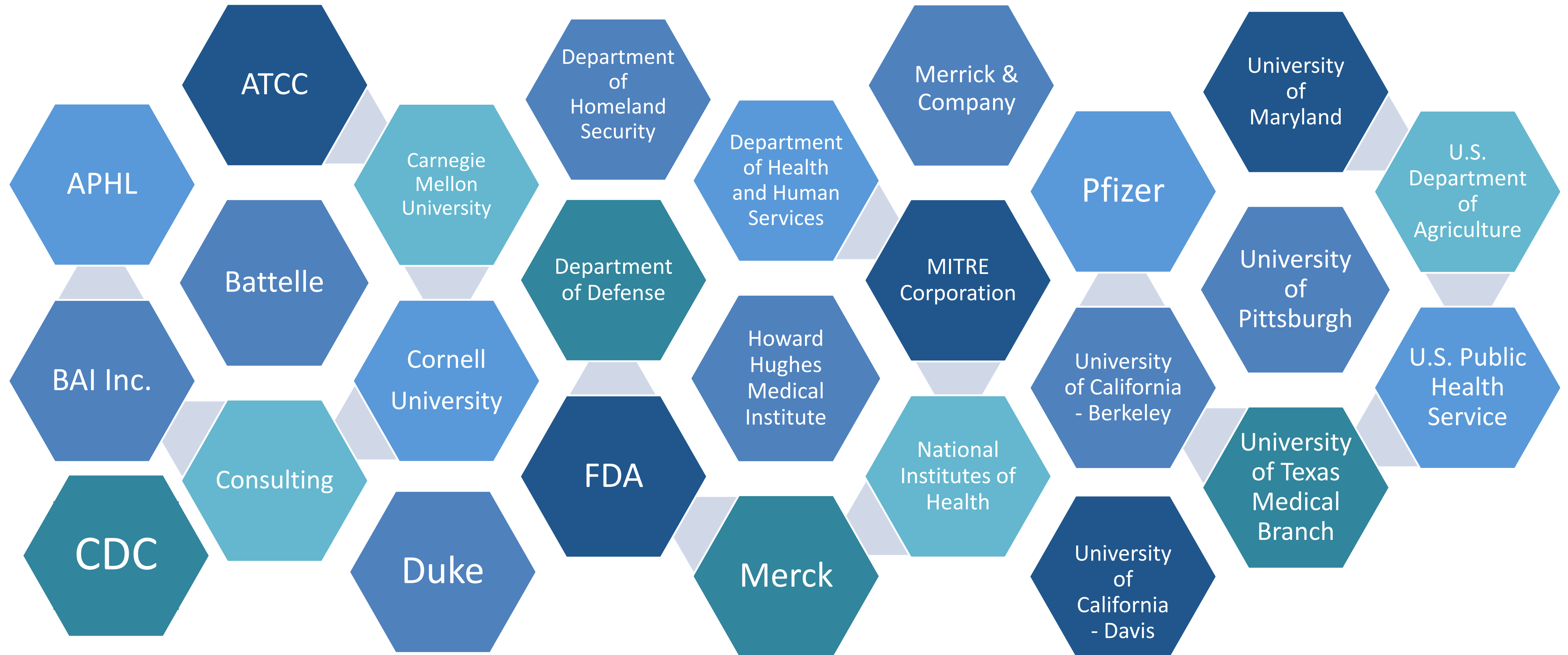
- Immersive, hands-on experience in biorisk management
- Solid foundation in biorisk management training and experience
- NIH has broad and extensive research portfolio
- Unparalleled access to biorisk management subject matter experts and cutting-edge researchers
- Opportunities to impact policy
- Developmental Assignments and Capstone Project
- In-depth BSL-4 training and project opportunities
- Access to NIH OITE and NIAID resources



National Institutes of Health

# Where do program graduates work?

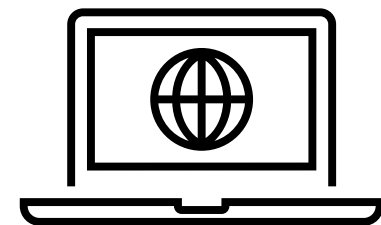
OFFICE OF  
RESEARCH SERVICES



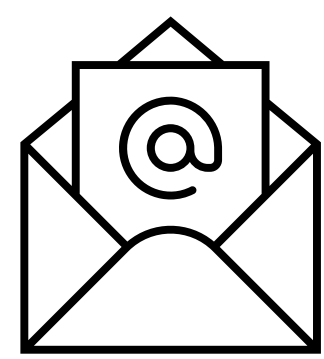
National Institutes of Health

# Contact Information

OFFICE OF  
RESEARCH SERVICES



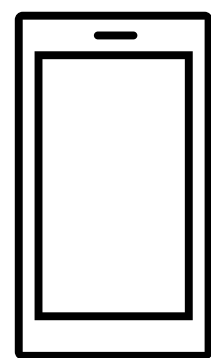
Visit <https://www.niaid.nih.gov/research/nbbtp-irta>



Email [NBBTP@nih.gov](mailto:NBBTP@nih.gov)

Email [jessica.mccormick-ell@nih.gov](mailto:jessica.mccormick-ell@nih.gov)

Email [derek.newcomer@nih.gov](mailto:derek.newcomer@nih.gov)



Call (301) 496-2960



National Institutes of Health