



# EPIDEMIC INTELLIGENCE SERVICE

2021 ANNUAL UPDATE



Training epidemiologists on the front lines of public health since 1951  
130 current officers | 3,973 alumni | 1 mission 24/7

# EIS OFFICERS...

are doctoral scientists,  
nurses, physicians,  
veterinarians,  
and other health  
professionals.



complete a  
2-year on-the-job  
training in applied  
epidemiology.

serve our country  
while gaining  
practical skills to  
become future public  
health leaders.



Amelia Keaton (EIS Class of 2017) reviews data with Matthew Wise, Deputy Branch Chief for Outbreak Response in CDC's Division of Foodborne, Waterborne, and Environmental Diseases.

## ON-THE-JOB TRAINING

- Field investigations and response
- Epidemiologic analyses
- Oral presentations
- Peer-reviewed scientific manuscripts and abstracts
- Surveillance system evaluations



Kathleen Krause and Joann Gruber (both EIS Class of 2018, first row); Vicki Fields (EIS Class of 2018, middle row); and Nancy McClung (EIS Class of 2017) and Lisa Oakley (EIS Class of 2018, back row) assessing the quality of neonatal abstinence syndrome (NAS) reporting in Pennsylvania in 2019.



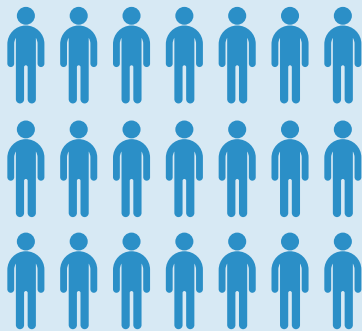
Miriam Van Dyke (EIS Class of 2020) helping conduct a community-setting validation study of BinaxNOW rapid antigen tests in December 2020.

TO LEARN MORE, VISIT  
[WWW.CDC.GOV/EIS](http://WWW.CDC.GOV/EIS)

# MEET THE EIS CLASS OF 2021

The 70 EIS officers in the class of 2021 were selected from 349 applicants.

## Clinical



### 21 Physicians

13 MPH

1 MA

1 PhD, MBA & MOH

Physician specialties

- Emergency Medicine
- Family Medicine
- Infectious Disease
- Internal Medicine
- Occupational Medicine
- Pediatrics
- Pediatric Infectious Disease
- Preventive Medicine



### 5 Nurses

1 DNP, master's degree in nursing & public health

1 DNP

1 MScPH & professional diploma in tropical medicine

2 MPH



### 5 Veterinarians

1 PhD

3 MPH

1 MPH in tropical medicine



### 4 Other Doctoral-Level Healthcare Professionals

2 MPH

1 with master's degree in health science

## Non-Clinical



### 35 Doctoral Scientists

23 MPH

4 MSPH

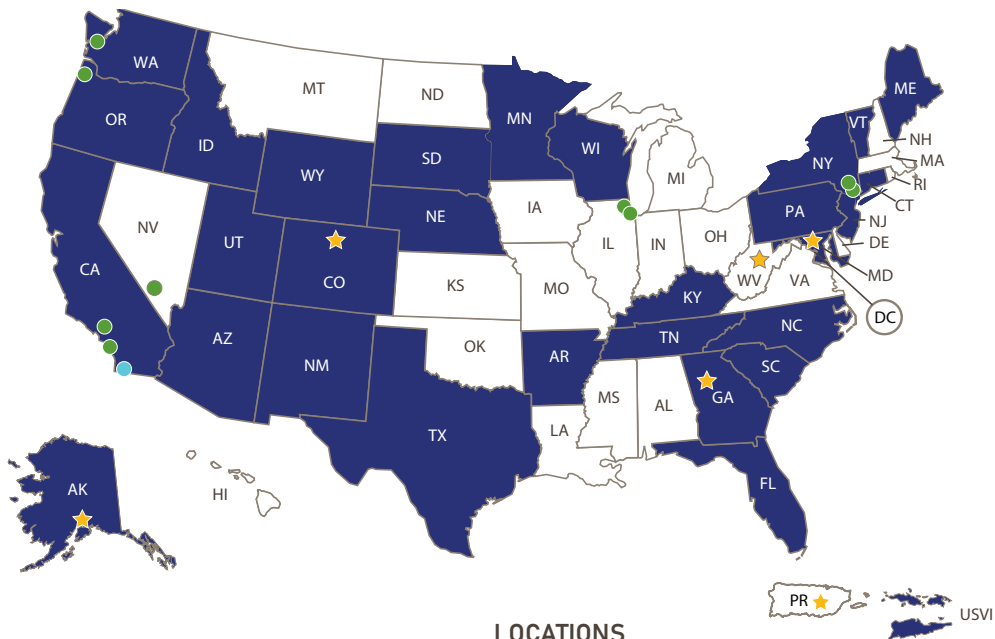
5 other master's degree

2 MBBS

Doctoral degree disciplines

- Civil and Environmental Engineering
- Environmental and Occupational Health
- Epidemiology
- Evolutionary Biology, Immunology, and Infection Research
- Global Health and Global Disease Epidemiology
- Health Behavior and Health Education
- Health Services Research
- Infection and Immunity
- Microbiology and Epidemiology of Infectious Diseases
- Nutrition and Health Sciences
- Public Health
- Social and Behavioral Interventions
- Translational Biomedical Sciences

# WHERE EIS OFFICERS WORK



**2020 and 2021 EIS classes (130 officers)**  
60 in class of 2020 | 70 in class of 2021

Effective August 2021

## LOCATIONS

- State or territorial health departments (34 officers)
- City, county, tribal, and other partners (9 officers)
- ★ CDC headquarters and campuses (86 officers)
- Combined local and federal positions (1 officer)

Host Site	Class of 2020	Class of 2021
Center for Global Health	7	9
National Center on Birth Defects and Developmental Disabilities	1	1
National Center for Chronic Disease Prevention and Health Promotion	3	6
National Center for Environmental Health and the Agency for Toxic Substances and Disease Registry	0	1
National Center for Emerging and Zoonotic Infectious Diseases	14	16
National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention	3	3
National Center for Health Statistics	1	1
National Center for Injury Prevention and Control	3	0
National Center for Immunization and Respiratory Diseases	5	6
National Center for Surveillance, Epidemiology, and Laboratory Services	1	1
National Institute for Occupational Safety and Health	0	3
Office of Minority Health and Health Equity	1	1
State, local, county, city, tribal, territorial health department, or other partners	22	22
<b>Total</b>	<b>60</b>	<b>70</b>



Patrick Dawson (EIS Class of 2019) and Christina Carlson (LLS Class of 2019) examine a bag of shrimp as part of an epi-aid investigation in early 2020.

# COVID-19 RESPONSE

EIS officers supported international, federal, state, local, tribal and territorial COVID-19 response activities.

All 123 EIS officers in the 2019 and 2020 classes have supported the COVID-19 response, including:

- 358 deployments to CDC Emergency Operations Center or field locations
- 8,241 deployment days
- All 41 EIS officers assigned to field positions worked on local COVID-19 response activities

*\*Data as of 6/30/2021*

## Examples of EIS support for COVID-19 activities:

### Conducted epidemiologic investigations

- Outbreak investigations in nursing homes and long-term care facilities, health care facilities, meat processing plants, correctional facilities, shelters for people experiencing homelessness, cruise ships, summer camps, and institutes of higher education
- Studies to assess
  - Household, community, and asymptomatic transmission
  - Risk factors for infection and severe disease
  - Clinical outcomes of infection
  - Rapid antigen and PCR test validation
  - Vaccine effectiveness and adverse events

Provided technical assistance to state and local health departments, territories, tribes, and other countries, including

- conducting case investigation, contact tracing, and risk assessment
- setting up and operating surveillance systems
- developing testing, isolation, and quarantine protocols
- developing infection prevention and control recommendations
- responding to healthcare provider inquiries
- setting up and running “pop-up” testing clinics



Melanie Firestone (EIS Class of 2020) collecting environmental samples at a home in Southern California as a part of a SARS-CoV-2 household transmission investigation.

Developed CDC and state or local guidelines on a range of topics including quarantine, isolation, testing, and mitigation strategies for a variety of settings



20.6264013  
25.9006212

# BEYOND EIS

20.7238529  
25.9074253

**98%**

of recent EIS graduates  
continue in public health  
related positions



**4 of the last 11**  
CDC directors are EIS alumni



**EIS officers and alumni  
contributed to  
>900 peer-reviewed  
scientific publications**

\*from classes of 2015-2020