

CDC's Epidemic Intelligence Service

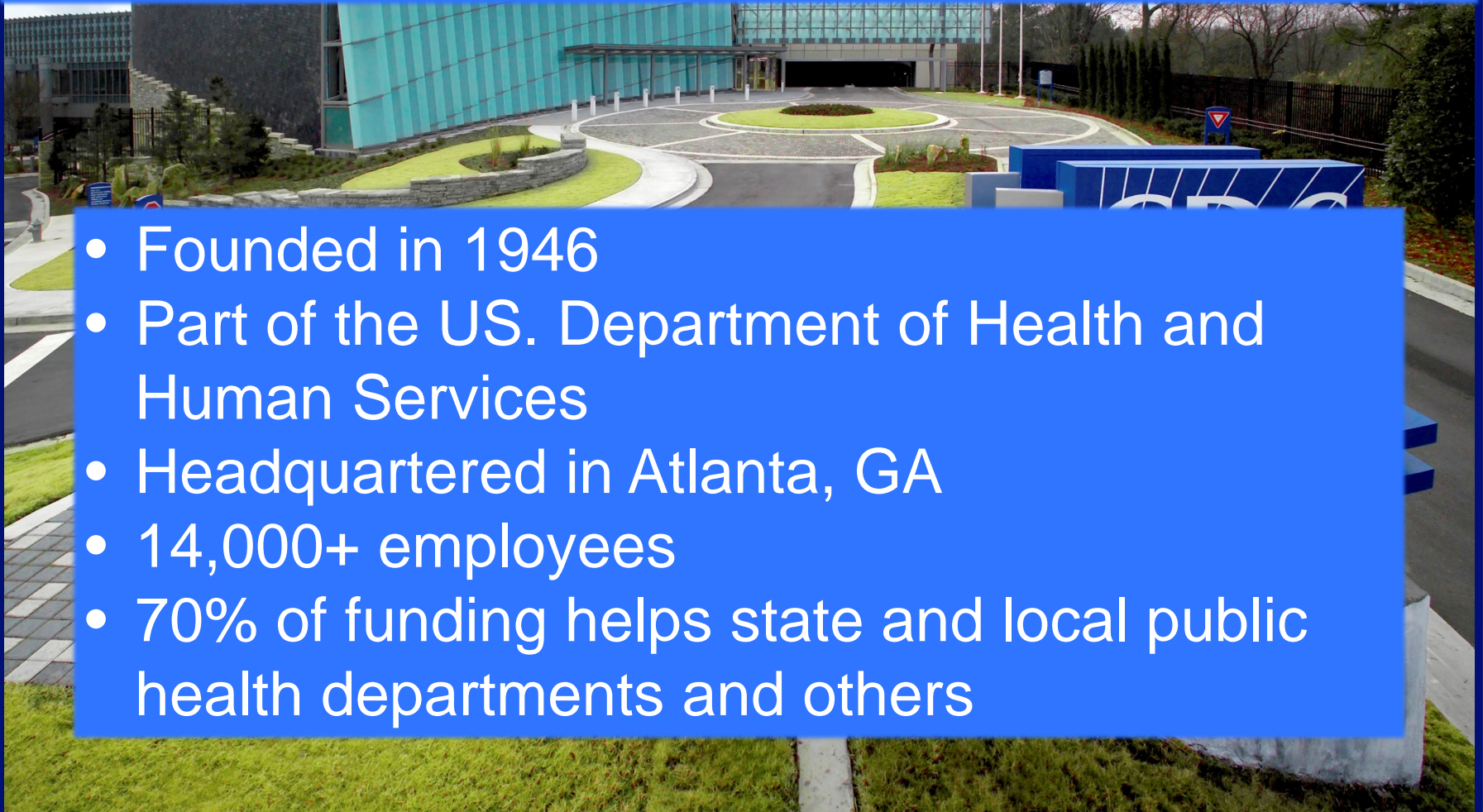


Center for Surveillance, Epidemiology, and Laboratory Services

Division of Scientific Education and Professional Development



CDC: The Nation's Health Protection Agency



- Founded in 1946
- Part of the US. Department of Health and Human Services
- Headquartered in Atlanta, GA
- 14,000+ employees
- 70% of funding helps state and local public health departments and others



All Heroes Don't Wear Capes

EIS Officers Are Public Health Heroes

When disease outbreaks or natural disasters strike at home or abroad, EIS officers — CDC's "boots-on-the-ground" disease detectives — are there.



“EIS is the world’s best introduction to interventional epidemiology: finding problems fast, and stopping them.”

**Tom Frieden,
MD, MPH
Director, CDC**

EIS Helps Turn Science into Real World Solutions

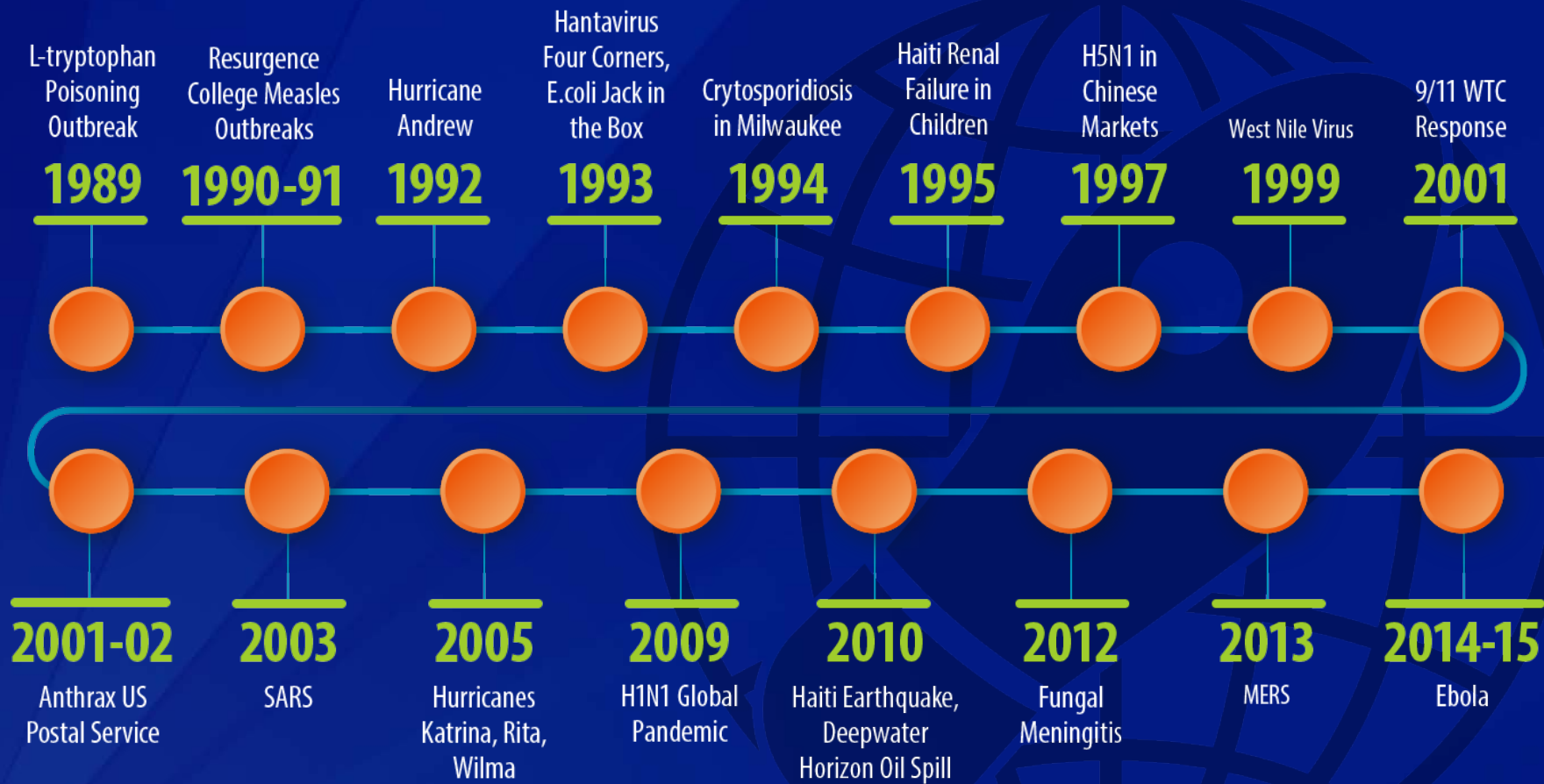


60+ Years of Success — *Protecting People and Saving Lives*

Polio
HIV / AIDS
SARS
Ebola
E.coli 157

Measles
Smallpox
TB
Fungal Meningitis
MERS





What is the Epidemic Intelligence Service?



2-year postgraduate fellowship in applied epidemiology for health professionals interested in public health

- Trains through hands-on assignments and mentoring
- Provides opportunity to gain applied, front-line public health experience
- Modeled on traditional medical residency program

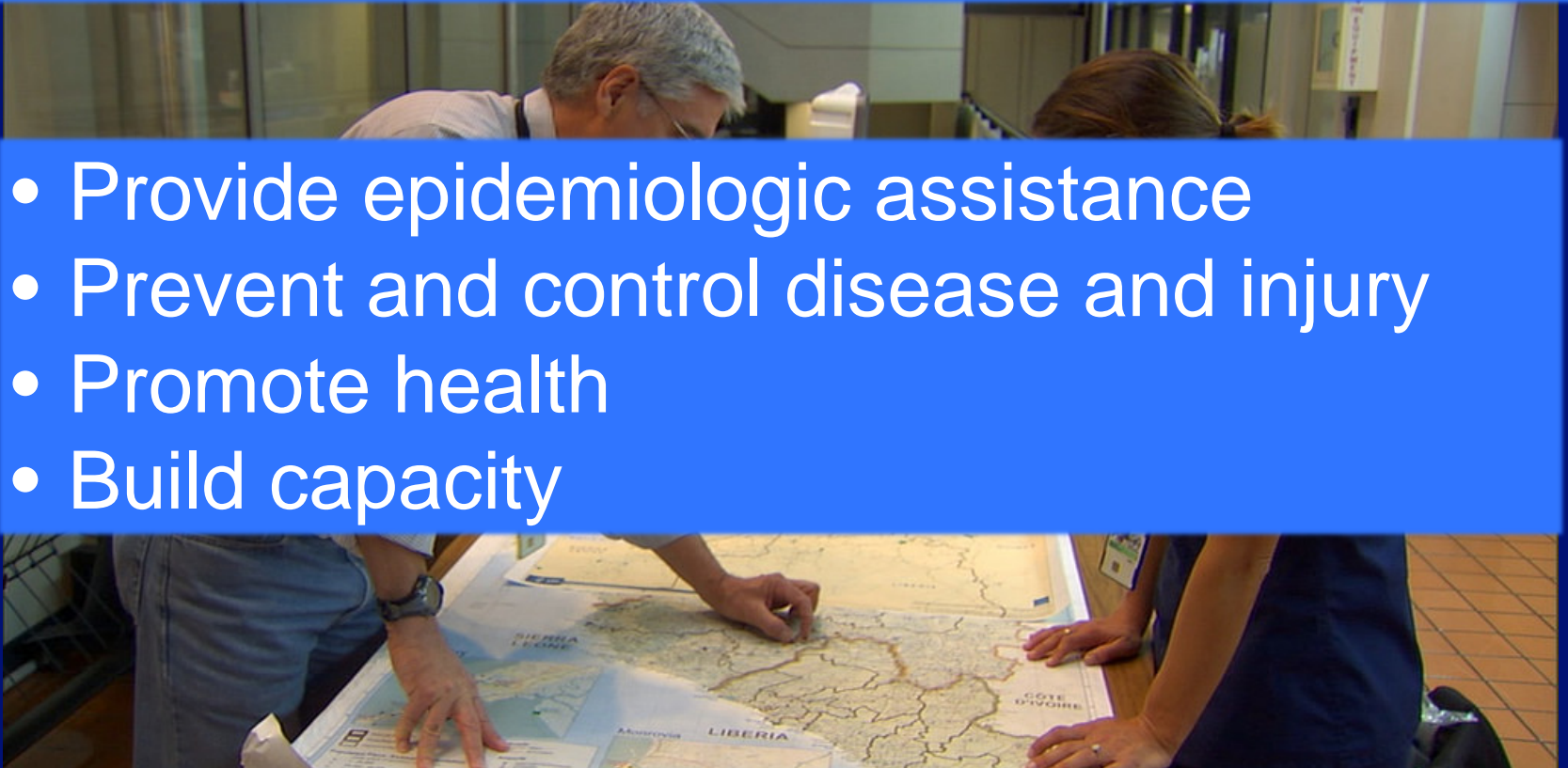
EIS: Who is Eligible?



- **Physicians** with at least one year of clinical training
- Doctoral-level **scientists** with background in public health or one of its disciplines
- **Veterinarians** and other **healthcare professionals** with MPH or equivalent degree, including coursework in epidemiology or quantitative methods, or relevant public health experience

EIS Mission: Domestic and International Service

- Provide epidemiologic assistance
- Prevent and control disease and injury
- Promote health
- Build capacity



EIS Mission: Training



Skill development work includes

- Applied epidemiology
- Quantitative methods
- Research design
- Epidemiologic judgment
- Health communication

EIS Officer Assignments



State or local health departments

- Broad front-line public health experience
- Surveillance, investigation, and intervention



EIS Officer Assignments



CDC headquarters and campuses

- Specialized disease or problem-specific experience (e.g. vaccine-preventable diseases, STDs, injury, ectopic pregnancy)
- Surveillance, investigation, and policy development



EIS: Limitless Possibilities



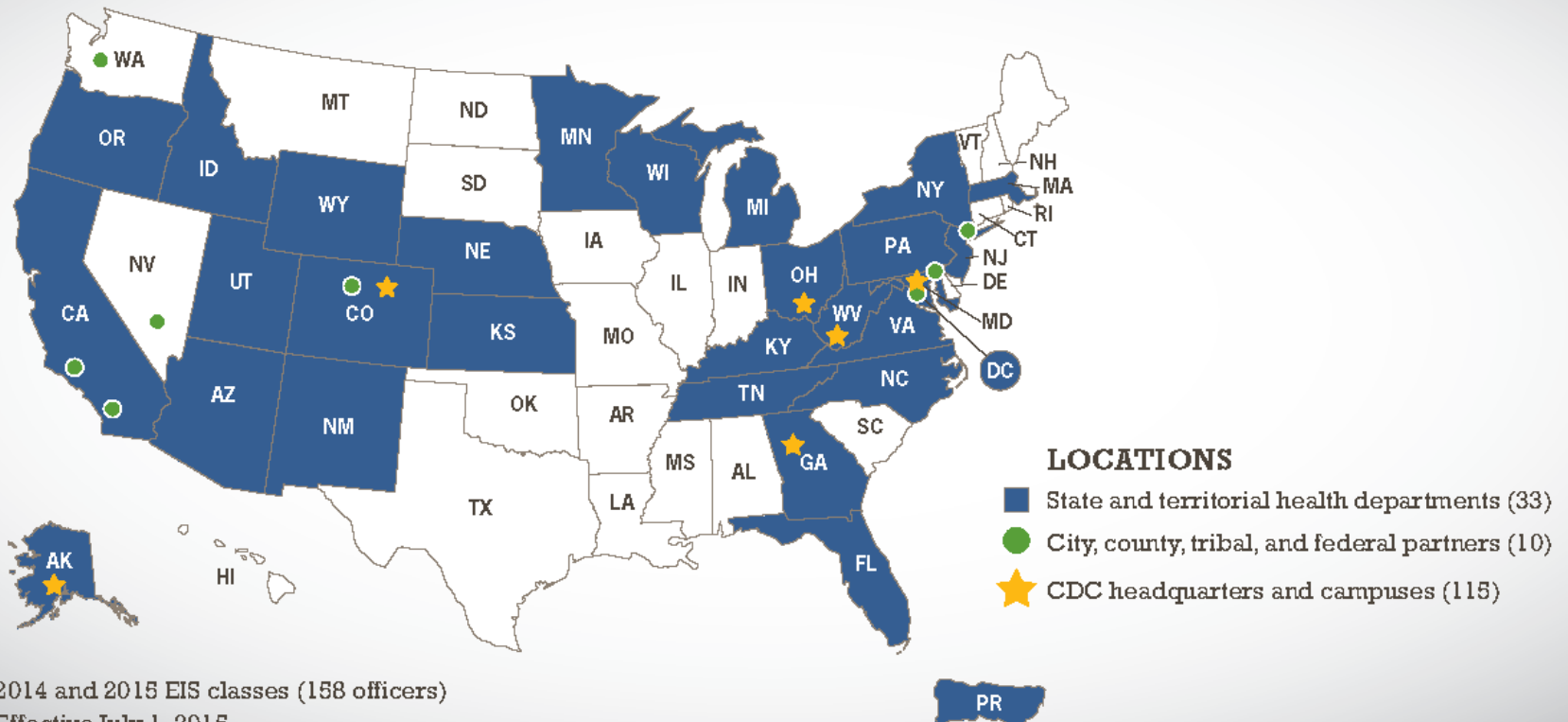
From assessment of farm wells in the Midwest



To responding to the Ebola outbreak in West Africa

EIS offers the unique potential to make a difference in people's lives anywhere, at any time...

EIS Officers Across the Country



EIS: Outbreak Investigations



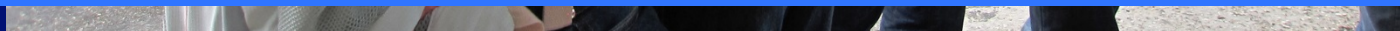
In 2014:

- CDC deployed EIS officers for 78 investigations
- EIS officers assigned to state or local health departments conducted an additional 206 epidemiologic investigations

Examples of CDC Emergency Operations Center Deployments of EIS Officers



- West Nile virus (2002)
- SARS (2003)
- Monkey pox (2003)
- Avian influenza (2004)
- Hurricane Katrina (2005)
- Rift Valley fever in Kenya (2007)
- Acanthamoeba keratitis (2007)
- H1N1 (2009)
- Haiti earthquake (2010)
- Fungal meningitis (2012)
- Polio eradication (2012)
- Ebola (2007 and 2014)



EIS Training Model: Service While Learning



- 5% classroom instruction, case studies, exercises, and e-learning
- 95% experiential learning on the job



EIS Training Model: Service While Learning

95% experiential learning on the job

- Provide service to CDC and partners (especially state and local health departments)
- Investigate outbreaks
- Conduct epidemiologic investigations
- Conduct public health research
- Conduct and evaluate public health surveillance
- Study infectious or chronic diseases, environmental or occupational health, injuries, or birth defects and developmental disabilities

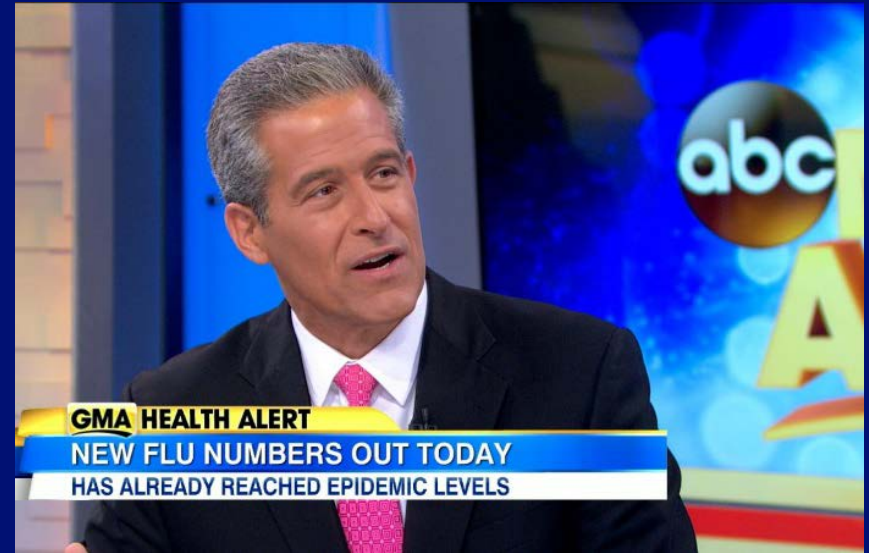
EIS Prepares You for Anything Become a World Class Problem-solver

Professional skills and abilities are acquired and refined through EIS

- Investigation of acute outbreaks and hazards
- Analysis of large datasets
- Evaluation of surveillance systems
- Publication and presentation of scientific manuscripts
- Oral presentation at national conferences
- Response to public inquiries



Dr. Helene Gayle
Former President
and CEO, CARE USA



Dr. Richard Besser
Chief Medical Correspondent, ABC News



Dr. Tom Frieden
Director, CDC

**If you are looking for an exciting career,
take a look at EIS!**

- EIS alumni are leaders in global public health, academia, research, foundations, public health practice, and the media
- EIS graduates often stay with CDC (about 75%)
 - 20% are in academia
 - <10% are in private practice

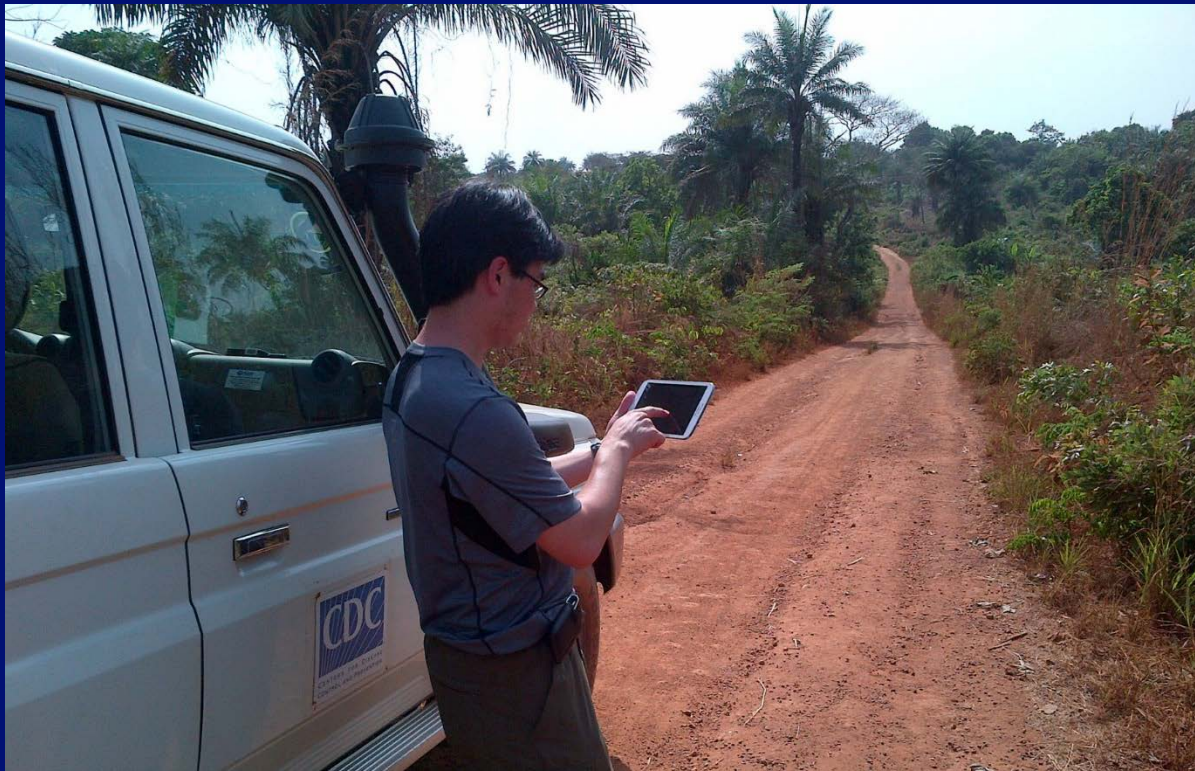
**As an EIS alumnus, join a select (>3,600) group
recognized as world class problem-solvers**

Everybody WANTS to Make a Difference. EIS Often IS the Difference!



You can improve the lives of thousands and effect change and offer hope to communities or entire countries.

Choose EIS as your gateway to an exciting and rewarding career!



To learn more, please visit [**www.cdc.gov/EIS**](http://www.cdc.gov/EIS)
or contact EIS at **EIS@cdc.gov**



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The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

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