



## What we offer



### R courses

Live sessions with 1:1 tutoring  
Taught by experienced epidemiologists  
Intro and advanced; multi-language



### Technical support

24/7 Support Desk for help with R code  
Implementation of analyses and automation



### Free resources

R handbook and tutorials  
Case study repository

We enable **agile outbreak response**  
and **reproducible workflows**  
with free software like **R**.

We have deep **roots in practice**,  
deliver **1-to-1 attention at scale**,  
and provide **scholarships**.

## Who we support

**1 Million users**

of our free resources

**14,000 consults**

1-to-1 technical sessions

**3,500 graduates**

trained in specialised course

**R training to 500+ agencies worldwide**



**65%**

of low & middle-income  
governments (**LMICs**)<sup>1</sup>

**66%**

of **US states**<sup>2</sup>

**87%**

of Field Epi Training  
Programs (**FETPs**)<sup>3</sup>

Including: WHO, US CDC, Europe CDC, Africa CDC, Doctors without Borders (MSF), Red Cross, TEPHINET, Resolve to Save Lives, data.org/Epiverse, UKHSA, RKI Germany, PHA Canada, Australia CDC

## Engage with us

**Browse our services**

[www.appliedepi.org](http://www.appliedepi.org)



**Partner with us**

[contact@appliedepi.org](mailto:contact@appliedepi.org)



**Follow us**

[@appliedepi](https://www.instagram.com/appliedepi)



“ I’ve taken several R trainings, this is the **BEST!**”

US CDC Epidemic Intelligence Service  
(EIS) Officer

“ I feel that I got a  
new **superpower!**”

Epidemiologist, Nigeria CDC





## Introduction to R course for applied epidemiology

**Overview:** Applied Epi's flagship course has provided practical R skills to thousands of public health practitioners. Gain confidence for tasks like data cleaning, plots and tables, and automated reports. Unlimited 1-to-1 tutoring and experienced instructors ensure you achieve your R goals.

**Duration:** 35 hours (10 sessions of 3.5 hours each)

**Format:** Synchronous sessions (virtual or in-person), over 5-10 weeks

**Activities:** Live lecture and coding demos, exercises using outbreak case studies, immediate personal feedback

**1-to-1 support:** Installation support, **unlimited tutoring available 24/7;** and **post-course support** on a work project

**Languages:** English, French, Spanish, Portuguese, Russian, & others

**Data used:** Case linelist, lab, & hospital data

**Pre-requisites:** Comfort with Excel; coding experience not required.

“ I feel that I got a new **superpower!**”

*Epidemiologist, Nigeria CDC*

“ One of the most applicable, intense trainings I've done... **I can use this!**”

*Epidemiologist, Southern Plains Tribal Health Board, Oklahoma, USA*

### Enroll now

- **Book a seat** in [our upcoming courses](#) for US \$995
- **Request a private course** - You set the schedule. US \$1250 per seat (10 seat minimum)  
Email [contact@appliedepi.org](mailto:contact@appliedepi.org)
- **Apply for** our [scholarship opportunities](#)

<b>Pre-course: Installation Support</b> 1-to-1 help installing R, RStudio, and R packages	
<b>Session 1: Basic R syntax</b> Coding basics, RStudio projects, import data	<b>1-to-1 tutoring</b> <b>Unlimited 24/7</b>
<b>Session 2: Data Cleaning</b> Clean a linelist with "tidyverse" functions and "pipes" to handle rows, columns, dates, duplicates, and to recode values	
<b>Session 3: Data Cleaning (part 2)</b> Missing values, logical recoding, age groups, and applying changes across columns	
<b>Session 4: Summary Tables</b> Group and summarise data with the janitor, dplyr, and gtsummary packages; add appealing formatting with flextable.	
<b>Session 5: Data Visualisation</b> Use the ggplot2 package to make plots of all types; adjust colors, scales, dynamic labels	
<b>Session 6: Troubleshooting</b> Common mistakes and solutions; learn to get help from AI and forums	
<b>Session 7: Automated Reports</b> Use R markdown to generate Word, PDF, and HTML reports that update automatically	
<b>Session 8: Transforming Data</b> Join datasets and pivot their structure	
<b>Session 9: Public Health Plots</b> Epidemic curves, heat plots, demographic pyramids, & epiweek calculations; GIS demo	
<b>Session 10: Final Case Study</b> Make an automated report on a new dataset	
<b>Post-course: Project support</b> One hour of 1-to-1 help applying R to your work projects.	



## Advanced R courses

**Overview:** Learn practical implementation of advanced R techniques from instructors who work at the cutting edge.

**Duration:** Each course is 7 hours (two sessions of 3.5 hours)

**Activities:** Live lecture and coding demos, exercises using outbreak case studies, with 1-to-1 tutoring

**Pre-requisites:** R skills at least equivalent to our intro course

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“ **Superbly structured and delivered by experienced epidemiologists to provide context to the code.** ”

*Epidemiologist, Public Health Wales*

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## Enroll now

- **Request a private course**  
US \$450 per seat (10 seat minimum)  
Email [contact@appliedepi.org](mailto:contact@appliedepi.org)
- **Book a seat in [our upcoming courses](#)** for US \$450

## Coming in 2027!

Epi fundamentals courses:

- **Intro to disease surveillance**
- **Structured data and spreadsheets**

### Automated Reporting with Quarto in R

Optimise automated reporting workflows with custom formatting, flexible layouts, modularised R scripts for scalable workflows, and parameters and loops to generate multiple reports with dynamic content.

*{quarto, here, rio, dplyr, flextable, ggplot2}*

### Introduction to GIS in R

Plot points, polygons, choropleth, and interpolated density “heat” maps with base maps and labels. Conduct spatial joins and basic analyses like nearest neighbor and buffer analysis.

*{tidyverse and ggplot2, sf, leaflet, ggspatial, maptiles, and terra}*

### Introduction to Statistics in R

Translate your stats knowledge into R code for descriptive analyses, statistical tests, and regression. Topics include interaction terms, random effects, variable selection including Lasso, & combining tables.

*{tidyverse, gtsummary, lme4, caret, glmnet, and survival}*

### Time Series Analysis and Outbreak Detection in R

Practical use of R for time series analysis, including data preparation, quality checks, modeling approaches, model evaluation, real-world complications, and exposure to interrupted time series and imputation.

*{tidyverse, tsibble, surveillance, csalert, gtsummary, lubridate}*

### Shiny in R

Create basic shiny applications for public health uses. Learn Shiny structure (reactivity, functions, modules), dynamic UI components, interactive plots, tables, and maps, and the use of templates. Prior knowledge of iteration (loops, or the purrr package) is required.

*{shiny, shinydashboard, shinyWidgets, leaflet, plotly, sf, DT, tidyverse}*

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“ **Full workflow integration, including maps. I couldn't have done this in SAS!** ”

*Epidemiologist & GIS specialist, US CDC*

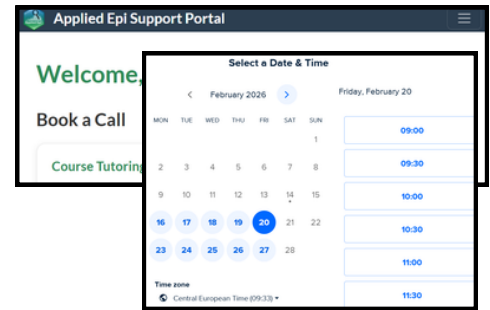


## R Support Desk

**Coding assistance**, review, and AI-checks by our **30 experts** with **24/7 coverage**, for single calls or extended relationships.

Email [contact@appliedepi.org](mailto:contact@appliedepi.org) to purchase hours:

- \$150/hour for most standard data processing and analysis
- \$250/hour for advanced topics e.g. complex study design or statistics, data processing, dashboards, or modelling
- Check our website for scholarship opportunities



## Technical implementation

Hire Applied Epi to produce analyses, data pipelines, dashboards, & more. Quotes upon request.

Customers include WHO, Doctors without Borders (MSF), and local US public health agencies.

### Spotlight: Ebola in Uganda '22-23

- **6 months** support to **Ministry of Health**
- Sponsored by **WHO**
- R automated **data pipelines** and **"sitreps"**

“ Their **timely assistance** empowered us to navigate complex data challenges... and **provide decision-makers with relevant information.** ”

Daniel Eurién  
Lead for Ebola Epi & Data Management  
Uganda Ministry of Health

## Meet some of our Support team (30 expert technicians)



**Stephanie Ngai**

@MSF @NYCDOH @WHO @CDC  
#R #surveillance #outbreaks



**Mumbua Mutunga**

@CHAI @CEMA @KEMRI  
#R #stats #surveillance #modeling



**Luis Quezada**

@WHO-PAHO @MOH\_Guatemala  
#R #shinyDashboards #surveillance



**Jason Jayaraj**

@MOH\_Malaysia @DigitalHealthDiv  
#R #AI #dataArchitect #interoperability



**Berhe Etsay**

@MSF @LiverpoolTropMed  
#R #OpsResearch #SouthSudan

“ Help that was fast and high quality  
- this was a **life saver!** ”  
Epidemiologist, Doctors without Borders (MSF)



## Enabling access for epidemiologists, everywhere

### Free essential resources



#### Epi R Handbook

50 chapters of best-practice R code

[www.epirhandbook.com](http://www.epirhandbook.com)



#### Case Study Repository

Real-world scenarios & exercises

[casestudies.appliedepi.org](http://casestudies.appliedepi.org)



#### Applied Epidemiology Manual

Practical epi methods (surveillance, study design, data collection, etc.)

Launches in 2026



#### Community Forum

Technical Q&A and discussion

[community.appliedepi.org](http://community.appliedepi.org)

1 Million  
users

### Scholarships

#### Applied Epi scholarships

We provide free and discounted services to teams in low- and middle-income countries (LMICs).

#### Sponsored scholarships

Our partners enable our services to reach audiences that need them, worldwide.

Check scholarship opportunities at:

[www.appliedepi.org/training/scholarships.html](http://www.appliedepi.org/training/scholarships.html)

#### Supercharge our impact!

Donors and partners help us more directly serve low-resource audiences. Email [contact@appliedepi.org](mailto:contact@appliedepi.org).



### More testimonials

“ We did a training from a software company - this is an order of magnitude **more useful** because **you're teaching what we actually do.**”

Program Manager, Epidemiology, United Kingdom

“ The **methodology is top notch...** I learned more with this online course than with other face-to-face courses

Epidemiology coordinator, Philippines Ministry of Health

“ **100 times better** than in my MSc at a top-tier university!

Epidemiologist, local US public health agency

“ Having an epidemiologist who has field experience sit down with me was... **magical.**

Field Epidemiology Coordinator, Liberia