

R Fundamentals for Data Exploration and Visualization

September 22, 2026

Alliant Energy Ag Innovation Lab, Rm 1060
3800 University Blvd, Ames, IA 50010
8:30 a.m.–4:00 p.m.

This hands-on workshop introduces the fundamentals of R—a powerful, open-source programming language used for data analysis, visualization, and statistical computing, along with the RStudio development environment, providing a practical foundation for working with data.

What you'll learn

You will learn about the tidyverse, a modern collection of packages that simplifies data manipulation and analysis through a consistent and intuitive workflow, explore data visualization techniques in R, and apply these skills to create explore and visualize spatial data from the U.S. Census Bureau. By the end of the workshop, you will be able to:

- Navigate the RStudio environment and apply fundamental R programming concepts, including variables, vectors, and data frames.
- Perform basic data analysis and create effective visualizations using R to explore and communicate data-driven insights.
- Use tidyverse tools and syntax to import, transform, summarize, and prepare data for analysis.
- Work with spatial and geographic data to create maps and visualizations that support decision-making and community understanding.

Who should attend

This workshop is ideal for: faculty, staff, students, and professionals new to R; researchers and analysts working with research or community data; and anyone interested in improving how they visualize and communicate information. No prior R experience is required.

Format

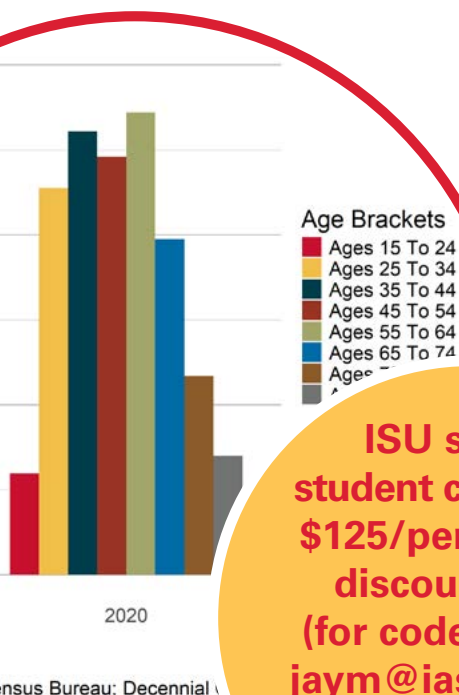
In-person instruction using examples relevant to community, nonprofit, and local government work. Bring your own laptop and follow along step by step.

To learn more and to register

Visit <https://go.iastate.edu/3LALBL> or scan the QR code.



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Course
Fee: \$150

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