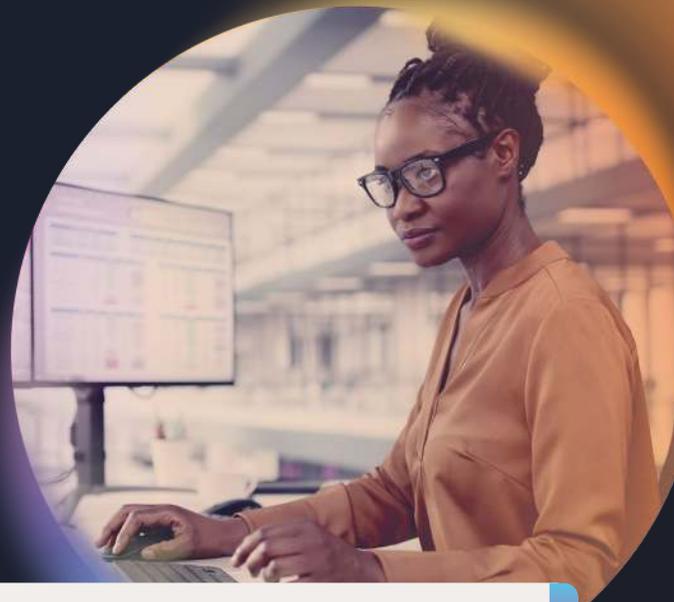# R Programming

Your Partner for Unlocking Scalable, Validated, and Automation-Driven Solutions

Companies are discovering the benefits of R as a primary engine for clinical programming, analytics, and regulatory submissions. Compared to SAS, R programming has the potential to offer greater cost-effectiveness and scalability while maintaining data integrity. Ephicacy is ready to partner with you to ease the transition to R, with extensive domain experience and a tenured team of programming experts. See how we can make your R programming journey seamless, compliant, and future-focused.

Why Choose R?

By making the shift to R programming, you can take advantage of key benefits, including:

- Accelerated analytics through automation and reusability
- Regulatory confidence with traceable, validated, and auditable workflows
- Empowered non-programmers with low-code, interactive visualization tools

Ephicacy is uniquely positioned to support your R journey, offering:

- Deep domain expertise in clinical programming and biometrics
- Proven enterprise R implementations for top global pharma clients
- Continuous innovation through open-source contributions and training

Our R Programming Services

Next-generation R solutions backed by unrivaled expertise:

- R Shiny dashboards
- Shiny application development
- Consulting services (process development, code optimization, and environment setup)
- Custom R package development
- SAS2R migration, including SAS log file
- R training
- Package validation

Technology Stack:

- R
- Shiny
- ggplot2
- dplyr
- tidyr
- Quarto
- R Markdown
- Admiral
- GitHub
- RStudio Connect
- Docker
- RSConnect
- Jira

Broad Biometrics Experience & Extensive R Expertise

Ephicacy boasts over two decades of biometrics experience as an organization, and our R Centre of Excellence is powered by a team of over 40 skilled R developers, data scientists, and statisticians. We combine R-specific expertise with a deep understanding of study design, compliance, and regulatory standards. The result is a suite of R programming solutions and guidance that reflect the clinical context behind your data.

Proven Success Navigating Cultural Shifts in Statistical Programming

Ephicacy provides the flexibility to transition to R programming gradually, supplement your existing workflows, and respond to evolving needs. We have the track record to prove it:

End-to-end R enablement for a global pharmaceutical client

Application & dashboard development

- Development of Shiny-based clinical data applications for real-time data review and visualization using teal framework
- Automated reporting, patient profiles, and QC dashboards with R Markdown and Shiny

Package development & standardization

- Creation of validated, reusable R packages for analysis, visualization, and TLF generation, along with a standardized R coding framework for Safety & Efficacy reports
- Standardization of SAS to R migration, enabling efficiency and traceability across projects

Training platform for a global pharmaceutical client

- Self-paced, interactive R learning platform that resulted in significant cost savings and higher engagement through continuous content updates

Smarter Execution Through Comprehensive Resources

We have the resources necessary to execute efficiently in line with your goals. From custom-built R logs that bring SAS-like traceability into R environments to our 21-day R training program, we ensure consistent quality and reproducibility across projects. In addition to our current capabilities, we are constantly innovating and evolving to respond to ongoing challenges and opportunities in R implementation.

Embrace R Programming With Confidence

Ephicacy is here to help you step into the future of clinical and real-world data analysis using R. Let our experienced team guide your transition, enhance your processes, and deliver consistent, reliable results.
Reach out to explore our R programming solutions.

[**Learn More at Ephicacy.com**]

Ephicacy is a rapidly growing biometrics CRO headquartered in Iselin, NJ, with employees and operations across North America and India. Ephicacy's tenured experts provide outsourced statistical programming, biostatistics, data management, and real-world evidence analytics services to pharmaceutical and biotechnology companies. Since its founding in 2005, Ephicacy has established itself as a leading player in the clinical analytics space, leveraging a global talent pool to help pharmaceutical and biotechnology companies reduce their time to market in a cost-effective manner. Explore the organization in more detail at www.ephicacy.com