



## CUSTOMER SPOTLIGHT

Training & empowering  
more than 1,100  
R users at AstraZeneca



### SUMMARY :

AstraZeneca transformed its research and biometrics workflows by integrating R as a core analytical tool alongside traditional software. By establishing a dedicated Data Science Academy and partnering with Posit, the company has upskilled over 1,100 researchers to leverage the power of open source. This paradigm shift has enabled faster discovery of molecular targets and created a compliant, reproducible environment for clinical reporting and genomic analysis across its global operations.



### ABOUT :

AstraZeneca is a global, science-led biopharmaceutical company that focuses on the discovery, development, and commercialization of prescription medicines in Oncology, Rare Diseases, and BioPharmaceuticals.

### INDUSTRY :

Life Science & Healthcare

### SIZE :

96,100

### TECHNOLOGY USED :

Posit Connect, Posit Workbench,  
Posit Package Manager

# The Challenge:

## Bridging the Gap Between Innovation and Regulation

Regulatory requirements and skill gaps limited the adoption of advanced open-source analytics.

- **SKILL SILOS:** A vast majority of new hires and existing staff were skilled in traditional tools but lacked a structured pathway to master R for advanced bioinformatics.
- **GOVERNANCE HURDLES:** Using R in a regulatory environment required documented controls and standardized configurations to provide evidence of compliant installations during inspections.



# The Solution:

## A Triple-Threat Approach to R Adoption

AstraZeneca launched a learning and governance initiative using Posit Academy to standardize R configurations across the organization. This created a validated environment where bioinformaticians move seamlessly between platforms while ensuring compliant and repeatable analyses.

- **STRUCTURED UPSKILLING:** The Data Science Academy delivered instructor-led and online R training to over 1,100 users, resulting in a 59% improvement in coding skills within six months.
- **STANDARDIZED GOVERNANCE:** A central group now leads package management and validation, providing a version-controlled R environment that meets GxP standards for clinical use.

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