



rOpenSci creates technical and community infrastructure for open and reproducible research in the R language.

It features a curated collection of over 300 R packages, an open software peer review system for community-contributed packages, a platform for building, testing, and publishing R packages, and documentation and community engagement programs to support scientific R users and developers.

APPLICATIONS

Tracking local extreme weather patterns such as storms and droughts, informing climate change studies, and medical studies tracking mobility during COVID19 lockdowns.

Providing scientists with a powerful, zero-maintenance outlet for publishing software, research compendia, and educational materials. Suitable for human consumption and programmatically accessible. Users include The Scientific Committee on Antarctic Research, UK NHS.

Easing regulatory approval of R package applications in the pharmaceutical industry and enabling fast-tracked acceptance at some academic journals.

Optimizing and examining data analysis pipelines, from munging data to making predictions in government, industry, and academic environments.

PLANNED FEATURES

- + Community Champions program that will empower people from historically excluded groups as community leaders in scientific open source projects
- + Provide various metrics for the impact of open source software on science
- + Improve automation for our software peer review process
- + Build out the r-universe platform for building, testing, and publishing R packages and documentation

PROJECT NEEDS

Always seeking volunteer expert reviewers for open software peer review

Translate rOpenSci developers guide into additional languages \$3,000 per language

Maintenance of developers guide \$5,000

Community expansion efforts such as a Community Champions program to empower scientific software developers from historically excluded groups \$10,000

Develop custom build features for r-universe infrastructure \$50,000

ROpenSci

For more information about rOpenSci, please visit:

<https://ropensci.org/>

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