

Powering Innovation in Rutgers Research

The Office of Advanced Research Computing (OARC) is the university's resource for Rutgers researchers tackling complex, data-intensive projects not feasible on personal computers, as well as the only secure environment for protected research data and large-scale research data storage. A division of the Office of Information Technology, OARC provides faculty, students, and staff with world-class research computing and data environments—including the Amarel cluster—along with expert support to help researchers use the OARC systems effectively.

What does OARC do?

- Enable scholarly achievements and innovative scientific advancement by accelerating research and time to discovery
- Manage the Amarel computing cluster, the Clinical and Research Data Warehouse (CRDW) and Amarel Protected Environment (PE), the 34PB Research Data Storage system, REDCap secure environment for collecting research data, and other resources
- Develop and facilitate training workshops for all OARC platforms that empower critical, sustainable research and remove the burden of training students and collaborators from faculty
- Partner on sponsored projects including research collaboration, infrastructure growth enablement, and proposal development

Amarel High-Performance Computing

7,000+

Rutgers students, researchers, and faculty utilizing Amarel

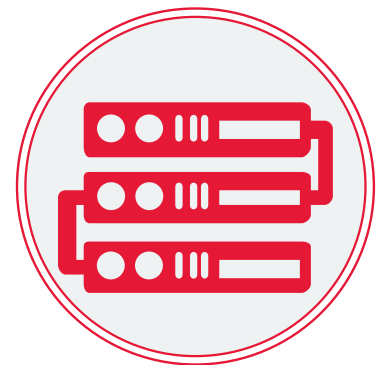
\$130,000,000+

collaborative grant funds brought into the university since 2016

2,850,000,000+

core compute hours since 2016

Of the **\$117 million+** in active sponsored awards at Rutgers using OARC HPC resources, about **80%** rely on those resources at no cost to researchers or award sponsors



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My experience working with OARC has set me up for multiple subsequent projects, and I'm genuinely impressed by how effective, collaborative, and user-friendly the team has been.

—Aaron Dallman

*Ph.D, OTR/L, Assistant Professor,
Department of Rehabilitation and
Movement Science*



Clinical and Research Data Warehouse (CRDW) and Amarel Protected Environment (PE)

The University's only centrally supported platform for storing and working with critical healthcare and protected data, including NIH-regulated datasets such as dbGaP, other Controlled Unclassified Information (CUI), Electronic Medical Records, Clinical Trial Management Systems, tumor registries, biospecimen repositories, and more.

- **90+** CRDW project collaborations since 2024
- **Over 77%** of all submitted CRDW projects have been successfully completed, are currently active, or are under review

Research Electronic Data Capture (REDCap)

Secure, scalable platform for Rutgers researchers who need to build databases and manage surveys in a secure environment, making it well suited for clinical research. REDCap supports a broad range of study designs, enabling high-quality research to be conducted quickly and consistently.

- **743** new REDCap projects were added in 2025, reflecting rapid institutional adoption
- As of 2026, over **1,250** REDCap projects and over **2,200** users are active across the university

Research Data Storage (RDS)

Reliable, high-availability storage designed specifically for the scale and complexity of modern research. RDS reduces the risk of data loss and ensures Rutgers remains competitive in securing grants and advancing high-impact research.

- **34PB** of storage available to support data-intensive research
- A high rate of adoption has demonstrated the need for an easy and affordable solution meeting sponsored project regulations

Data Storage Finder

» The university community can identify the most suitable options for data storage at Rutgers through the Data Storage Finder, which is a searchable matrix. All services presented there can be assessed for use based on:

- Storage capacity
- Computational needs
- Capability to handle sensitive data
- Cost considerations
- Sponsor requirements, such as sharing

