Technology and Computing Solutions for UMD Researchers

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Research Computing
Contact Us.
We look forward to working together on our mission of discovery!

Research Computing Team
it-research-consult@umd.edu
Every Other Wednesday from Mid-September until December

Drop in to talk about services, ask questions, or share your experiences with technology on campus.

Link will be posted in the service catalog!
IT Service Catalog & Knowledge Base

https://go.umd.edu/researchtech
Research Technology Package

- Consultation
- UMD Virtual Workspace
- Zaratan HPC and Archive
- UMD Box Collaboration Storage
- Qualtrics Survey Research Core
- Panopto Video Management
- Google Cloud
- TERPware Software Catalog
- CUI Environment

Available to every researcher on campus.

Storage • Surveys • HPC • Secure Data Enclave • Cloud Templates • Software Virtual Workspace • Consulting • Cybersecurity Toolkit
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Assistant Vice President and
Chief Technology Officer

Kevin Hildebrand
HPC Architect

Thomas Payerle
HPC Engineer

Franz Klein
HPC Engineer

Mid-Atlantic Crossroads (MAX)
High Performance Computing
hpcc.umd.edu
New High Performance Computing Resource

Zaratan is coming.

Open OnDemand Portal provides a simpler interface

HPC can be used for courses, too!
Google Cloud

Scalable

Credit opportunities for research and for teaching and learning

Protection against overspending

RAD Lab module - get started quickly

Access to Google hosted Open Data Sets
Amazon Web Services

Self-Service options in the Service Catalog

Access to AWS Support

Assistance with Proposal Writing from AWS Personnel
UMD Virtual Workspace

Connect to Windows desktops from any machine

Save and access files from other DIT Storage services

Includes most software titles available from TERPware
UMD Box

500 GB for Individual Accounts

1TB for Group Accounts (good for projects!)

Features to manage access control and file retention; approval workflows.

Integrates with other DIT Services and OSF Institutions
Open Science Framework

Manage projects, connect to storage services, share datasets. This service is provided by the University Libraries and Division of Research.

About: https://lib.guides.umd.edu/osf
Access: https://osf.umd.edu/
NIH STRIDES

Significant discounts on cloud resources used for NIH awards

Access to the NIH STRIDES support team

https://datascience.nih.gov/strides

Available for Google Cloud and AWS
TERPware

Visit terpware.umd.edu

Many software titles are offered at no cost to you, or at significant discounts
MATLab

MATLab is used for research and for teaching

MATLab online: no installation needed

MATLab grader

Hands-on training with micro-credentials
https://matlabacademy.mathworks.com/
NVIVO

Qualitative analysis software

Occasional Workshops offered by the software provider

https://www.qsrinternational.com/nvivo/community
NIH Data Management & Sharing Policy

New Policy beginning 2023: all proposals must include a data management and sharing plan.

Services and Tools can be used in your planning
Terrapin sounding rockets were two-stage vehicles launched from Wallops Island. The Terrapin sounding rocket was developed by Republic Aviation under a National Security Agency contract for a University of Maryland project that allowed graduate students to study the upper atmosphere.


Research Cybersecurity

Significant recent efforts by sponsors focusing on cybersecurity

This includes Executive Orders and Guidance and changes to Federal Acquisition Regulations.

Complex requirements for securing data are found in Research and Data Use Agreements.
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Research Cybersecurity

New initiatives to facilitate research agreements that include security requirements

CUI Environment - great option for research that requires a high level of security

https://it.umd.edu/security/research
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The Research Technology Working Group (RTWG) provides the vision, priorities, and pace for enterprise research technology solutions and services to be undertaken on campus.

https://it.umd.edu/governance/research-technology
This group is centered around all things Google Cloud. Join the UMD Google Cloud Community to connect with peers, learn about new resources, and share your work.

https://groups.google.com/a/umd.edu/g/gcp-community
Still forming, this group is centered around the vision that researchers can present and learn about technology used for researcher–data analysis tools, data workflows, using IoT to collect data, AI/ML, data storage.

https://groups.google.com/a/umd.edu/g/research-data-technology
it-research-consult@umd.edu
Questions and consultations

itsupport.umd.edu
Services, articles, support

hpcc.umd.edu
High performance computing and networking

Contact us. Find services. Browse how-to articles.