Pre-Application Information Session

All of Us Data Training and Engagement for Academic Libraries Program

An Initiative to Increase Awareness and Meaningful Use of the *All of Us* Researcher Workbench



Presented August 29, 2023







Agenda

- The All of Us Research Program
- All of Us Data Training and Engagement for Academic Libraries Program
- Application and Eligibility
- Additional Information
- Questions?



The All of Us Research Program

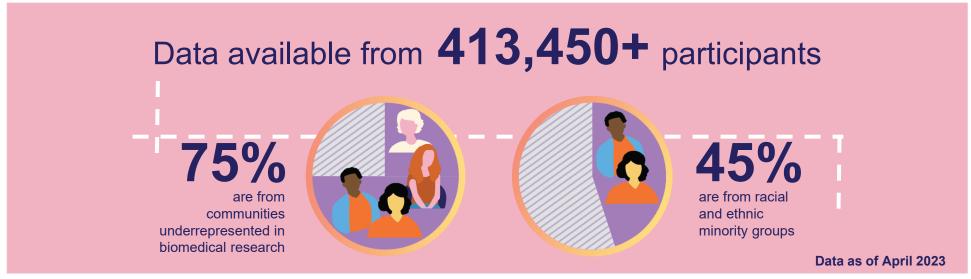
The *All of Us* Research Hub
The *All of Us* Researcher Workbench





One of the world's largest, most diverse biomedical datasets of its kind











Enabling research discoveries that drive more precise approaches to care

Engages people & communities who have been left out of medical research in the past

Combines biological factors and social determinants on a large, inclusive scale

Easily accessible

to any researcher
with a secure
internet connection
and data use
agreement



Follows participants as they move, age, and grow









By securely capturing a range of different data types

The *All of Us* Research Program's Data and Research Center (DRC) curates a range of different data types as part of the data collection process.



413,350+
Survey Responses



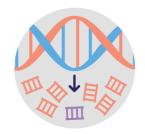
337,500+
Physical Measurements



312,900+ Genotyping Arrays



287,000+
Electronic Health
Records



245,350+
Whole Genome
Sequences (WGS)



15,600+ Fitbit Records NEW! Sleep Data



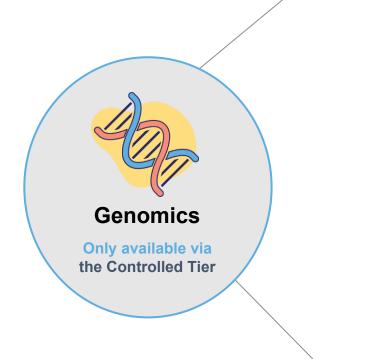


Data as of April 2023

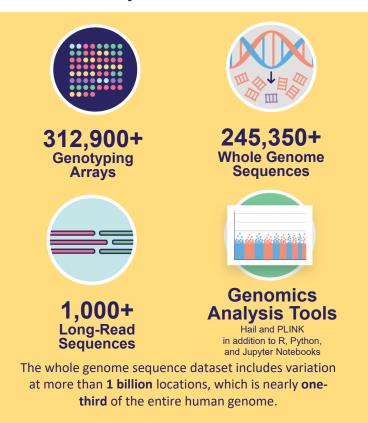


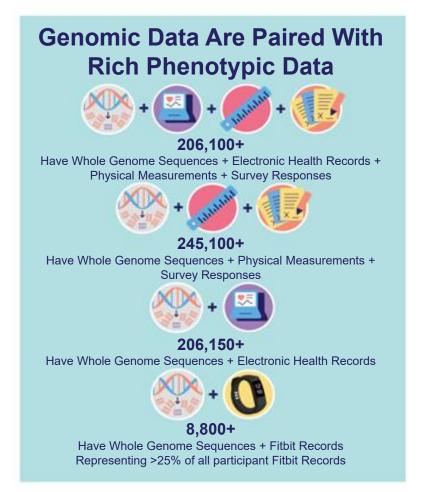


Including the largest set of WGS widely available for research



As of April 2023, the *All of Us* Researcher Workbench contains the **largest set of whole genome sequences** widely available for research.





Data as of April 2023







Along with the Social Determinants of Health Survey

By connecting biological and social determinants of health data on a large, inclusive scale and following participants as they move, age, and grow, the *All of Us* dataset is driving new insights into health and disease.

Social Determinants of Health (SDOH) Survey data

























from 117,750+ responses

Data as of April 2023



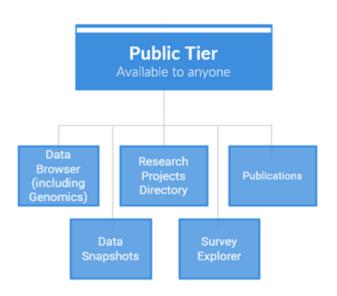


DATA: Access Flowchart and Tools

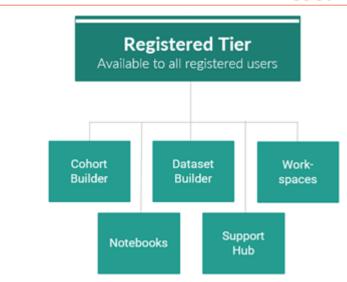
ResearchAllofUs.org

Known as "The All of Us Research Hub," it is researchers' main point of entry to the All of Us Research Program

Researcher Workbench



The Public Tier dataset contains only aggregate data with identifiers removed. These data are available to everyone through Data Snapshots and the Data Browser. Other public resources such as the Research Project Directory, Survey Explorer and Publications List offer non-databased program summaries.



The Registered Tier curated dataset contains individual-level data, available only to registered researcher on the Researcher Workbench. The Registered Tier currently includes data from electronic health records, survey answers, and physical measurements taken at the time of participant enrollment. Currently, researchers with login.gov credentials and institutional sign-off my apply for access.

Controlled Tier

Available to registered users with amended institutional agreements

This more expansive dataset allows researchers access to all of the tools from the Registered Tier PLUS genomic data and more granular participant demographic data

Because the data in the Controlled Tier carry a higher level of sensitivity, strict privacy and security safeguards protect participant's information and ensure data is both accessible and secure.

The Controlled Tier curated dataset contains individual-level data, available only to registered researchers who have taken additional steps and training to access these data.





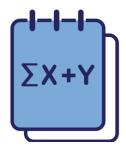
Supported by Workbench tools and resources



WORKSPACES

USES:

- Organizing research projects
- Collaboration
- Transparency



NOTEBOOKS

USES:

- Analyses
- Queries

Uses programming languages R, Python, HAIL, and PLINK



DATASET BUILDER

USES:

- Pre-populated analyses
- Dataset previews



COHORT BUILDER

USES:

Cohort creation



USER SUPPORT HUB

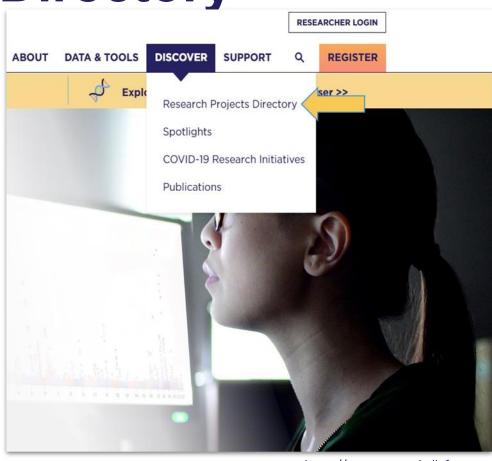
USES:

- Workbench training and resources
- Articles on Data and Tools
- Live office hours

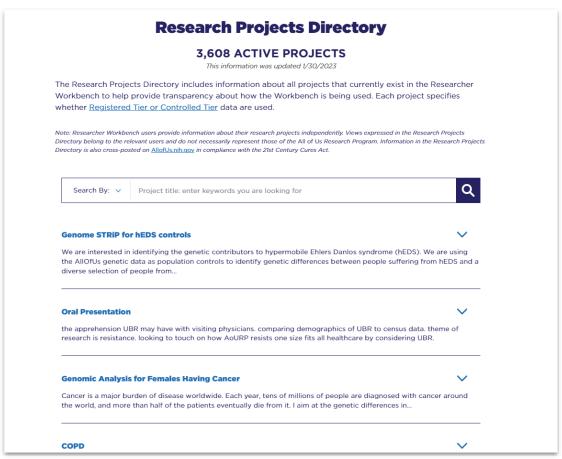




The Research Hub: Research Project Directory



https://www.researchallofus.org



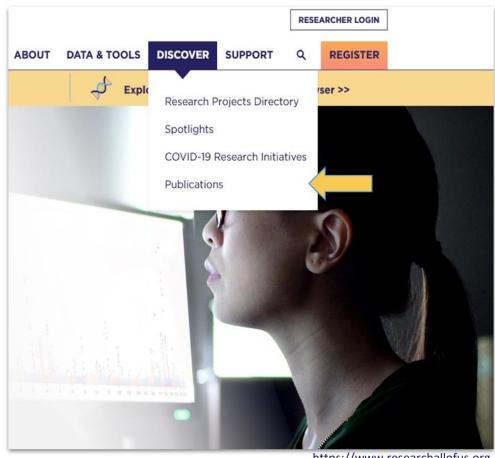
https://www.researchallofus.org/research-projects-directory



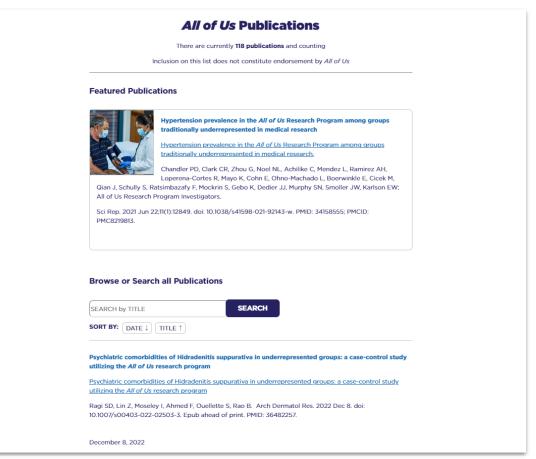




The Research Hub: Free, Peer-Reviewed Publications Using All of Us Data



https://www.researchallofus.org



https://www.researchallofus.org/publications







All of Us Data Training and Engagement for Academic Libraries Program

Reasons to Participate

Program Benefits

Program Requirements and Expectations





All of Us Data Training and Engagement for Academic Libraries Program

Through the provision of this program, the National Library of Medicine (NLM) aims to provide opportunities to build and strengthen the research capacity of libraries at institutions with a historic and current commitment to, or track record of, educating underrepresented students.

The Program will position the participating library(ies) as a place for biomedical and public health data knowledge, skills, and abilities to flourish by:

- Increasing data skills and knowledge of library workers
- Building, and strengthening research capacity through technology and software
- Creating instructional library resources
- Promoting the All of Us data set throughout the campus community.



Reasons to Participate

Libraries are at the Center of Campus Communities

- Responsive to the needs of academic institutions for data-driven research
- Utilize training materials to assist campus communities
- Introduce the *All of Us* database to researchers from various disciplines
- Provide basic instruction in applied data science skills to early career and seasoned researchers, faculty, and students

Libraries Provide Access to Data-Driven Research

- Data-driven research continues to be a priority for academic institutions
- The <u>All of Us Research Program dataset</u> offers access to a diverse, longitudinal dataset that includes biological and social determinants of health data on a large, inclusive scale.
- The <u>All of Us Researcher Workbench</u> is a cloud-based platform and data browser

Libraries Serve as Facilitators to Research

- Access to this robust dataset along with training materials and resources from the library may
 - increase the research capacity for your institution
 - increase academic publication rates, grant awards, and research activity, and more





Program Benefits

Institutions selected for the Academic Libraries Program will also be eligible for a Capacity Building Award up to \$40,000 for participation in this program.



This award will be administered by ORAU, on behalf of the National Library of Medicine. This is not a research or training grant, and therefore any National Institutes of Health grant-negotiated rates do not apply.





Capacity Building Award – Potential Uses

- Funding awards can be used for a variety of purposes that best serve the institution.
- Funding awards are intended to build research capacity for use of the All of Us Researcher
 Workbench and conducting biomedical and public health data science research on campus
 communities.



- Computers and accessories
- Cloud space to use the All of Us Researcher
 Workbench
- Personnel
- Data Engagement Activities
- Laptop Lending
- Secure, encrypted Wi-Fi hotspots

- Other equipment, technology, software acquisition, and computing costs to increase capacity to use the *All of Us*Researcher Workbench
- Workstation creation for physical access to the *All of Us* Researcher Workbench at campus library/libraries
- Additional education, tutorials, or trainings for R, Python, and/or SQL for library workers and campus communities





Program Requirements and Expectations

*Development Phase: November 2023 – March 2024

Engagement Phase: April 2024 – September 2024

Institution will

- Obtain a signed <u>Data Use and Registration</u> <u>Agreement (DURA)</u>
- Complete an online questionnaire
- Develop a plan for data engagement activities, including budget plan for Award
- Develop and promote a resource (such as a LibGuide) on institutional library website

A minimum of 1 Participating Library Worker will

- Obtain access to the Researcher Workbench and complete a Data User Code of Conduct (DUCC).
- Attend monthly cohort meetings
- Complete all trainings, including
 - Researcher Workbench Basics
 - Basic Coding Training series on R software
 - Data Engagement Activities Training series

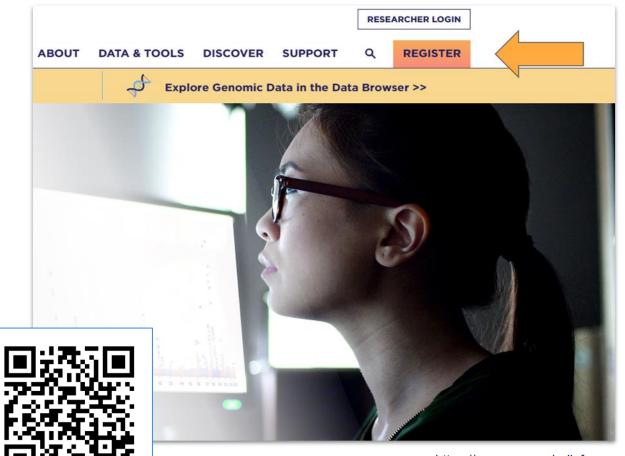




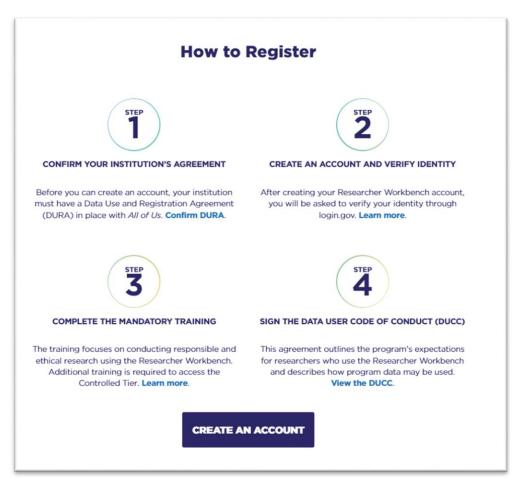


^{*}Additional opportunities are planned in late 2024 and 2025 to provide opportunities for additional professional development and promotion of completed projects and program impacts.

Registration



https://www.researchallofus.org

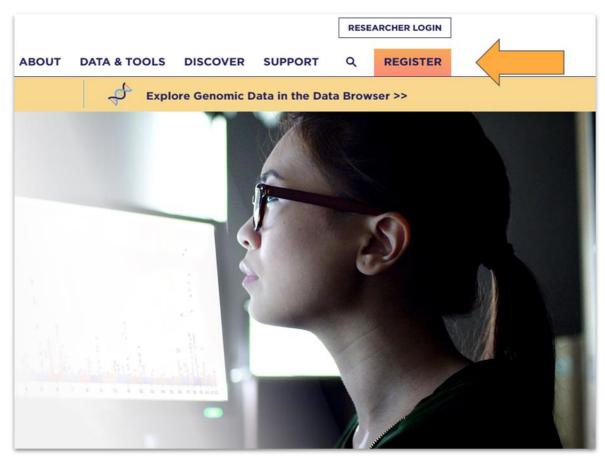


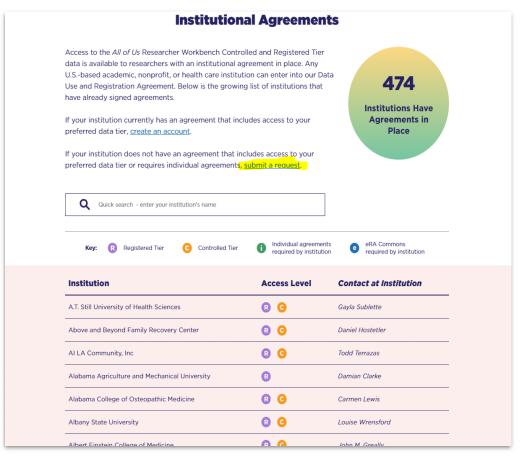
https://www.researchallofus.org/register





Data Use and Registration Agreement





https://www.researchallofus.org

https://www.researchallofus.org/institutional-agreements





Application and Eligibility

Application Questions

Eligibility Criteria

Accessing and Using the Application Portal





Application Questions

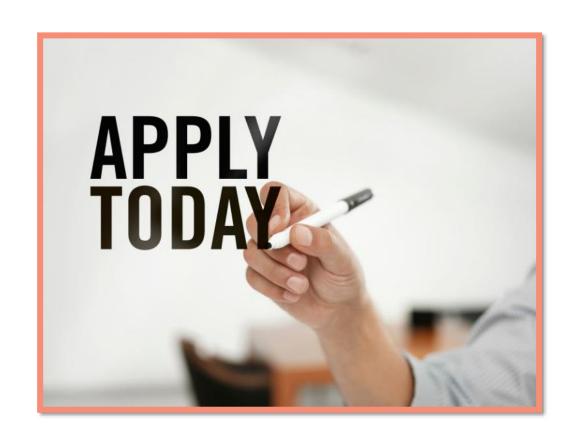
- Contact Information
- Eligibility Criteria
- Scored Questions

Helpful Links

Application Portal

Application Job Aid – includes
Application Questions

Application Question Rubric





Program Administrator

As part of the application process, each institution should designate one individual to be the *All of Us* Libraries Program Administrator for their campus(es).

This person is encouraged to reside within a participating library and/or administrative position that can support key decision making regarding the Capacity Building Award.

Program Administrator contacts can be changed or modified upon selection for the program.





Letter of Commitment

A **Letter of Commitment** from the Director or Dean of your institutional library supporting program requirements and your participation in the training program is required.

A signed uploaded letter on institutional letter head is preferred, however a formal email from an institutional email address with full signature block may also be accepted. Emailed letters should be directed to NLMAllofUs@orau.org.



Eligibility Criteria

The applicant must be the institutional library. Multiple libraries from the same institution may apply jointly. Only one application per institution is eligible for selection.

To be eligible for the Program, institutions must meet the following criteria:

- Be an <u>accredited U.S. Institution.</u>
- Be a library within an institution with a historic and current commitment to, or track record of, educating underrepresented students.
 - Please refer to detailed information about this requirement on our webpage.
- Your institution or organization must have a Data Use and Registration Agreement (DURA) in place with *All of Us* or be willing to establish one with *All of Us*. Institutional DURA status can be confirmed on the *All of Us* Research Hub



Historic and Current Commitment to, or Track Record of, Educating Underrepresented Students

- NIH defines "Underrepresented Populations in the U.S. Biomedical, Clinical, Behavioral and Social Sciences Research Enterprise" in the <u>Notice of NIH's</u> <u>Interest in Diversity.</u>
- Institutions that have a track record of successfully training diverse researcher populations, including those at HBCUs (i.e., institutions described in section 4(b) of Executive Order 14041 (incorporating by reference the institutions listed in 34 C.F.R. 608.2)) and other minority-serving institutions, are also encouraged to apply.



The Data Use and Registration Agreement (DURA) Process















Researcher or institutional administrator submits access request form

Researcher tip:
Provide the name of your institutional contracting officer when you submit your DURA request to help streamline the process.

Request is processed by the Internal Access Team at the All of Us Data and Research Center, operated by Vanderbilt University Medical Center (VUMC)

1-2 business days following submission

VUMC contracting officer reaches out to institutional administrator

1-2 business days following processing Communication between VUMC contracting officer and institutional administrator

Every 2 weeks until partially executed agreement is received

Institutional
administrator
submits a partially
executed
agreement that is
then approved
by a VUMC
contracting officer

1-2 business days following receipt of partially executed DURA Once
approved,
institutional
access is
granted to
Registered
and/or
Controlled
Tiers

1-2 business days after DURA is signed Researcher can create their All of Us Researcher Workbench account

Visit the All of Us Research Hub to get started

https://allofus.org/DURAForm

Researcher



VUMC Contracting Officer



Institutional Administrator





Scored Questions

- 1. The expected impact of this program on your library and library staff. (15 points)
- 2. The expected impact of this program on your campus community, including students, administration, faculty, and/or researchers. (15 points)
- 3. Your library/campus community's data readiness based on the following (10 points):
 - a) People: the expertise, receptivity, and commitment to using data among administrators, faculty, and staff.
 - b) Process: the interactions among people and guidelines necessary to ensure that data are shared widely, and processes are in place to produce information that the institution can use.
 - c) Data Management: storing and retrieving information and how information that is critical to the institution becomes transparent through data management.
- 4. How this program will enhance your institution's ability to train and support "Underrepresented Populations in the U.S. Biomedical, Clinical, Behavioral and Social Sciences Research Enterprise." (10 points)



Data Readiness

This program is intended to build capacity for data readiness at your institution.

Institutions are not required to be data ready or to have these elements already in place.

Applicants who feel they are not data ready are encouraged to apply and should describe their current state of readiness.



Accessing and Using the Application Portal



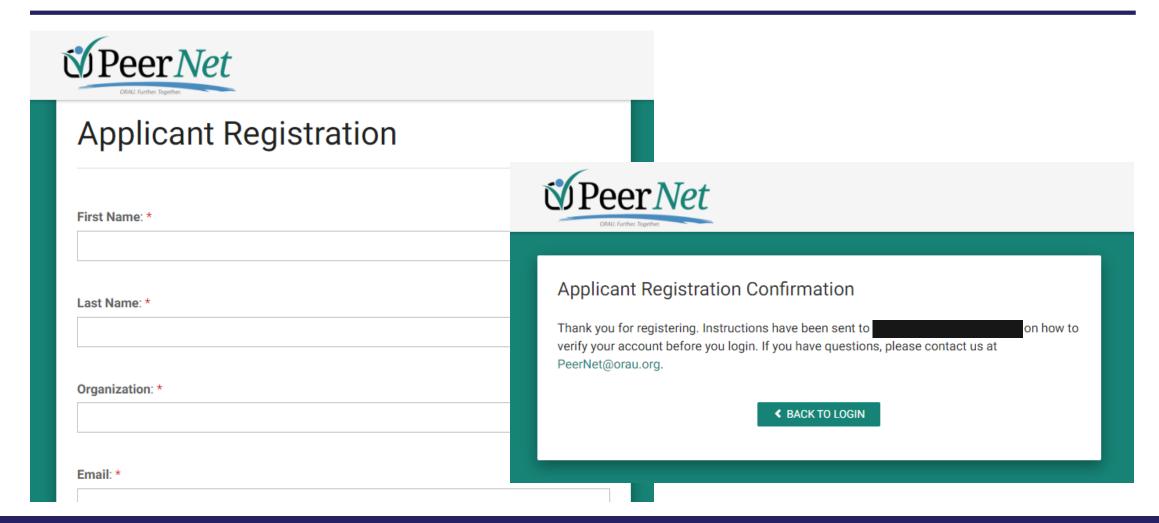
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Already have a PeerNet account? Log In. Email Password Reset/Forgot Password?	rNet
Password Reset/Forgot Password?	Already have a PeerNet account? Log In
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Reset/Forgot Password?	
	Password?
	REGISTER





Registering for the Application Portal







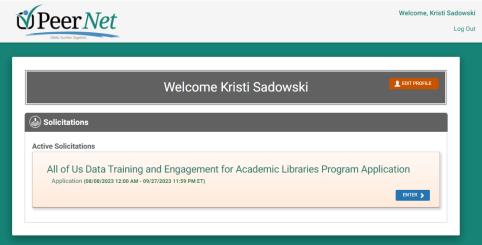
Reset Your Password

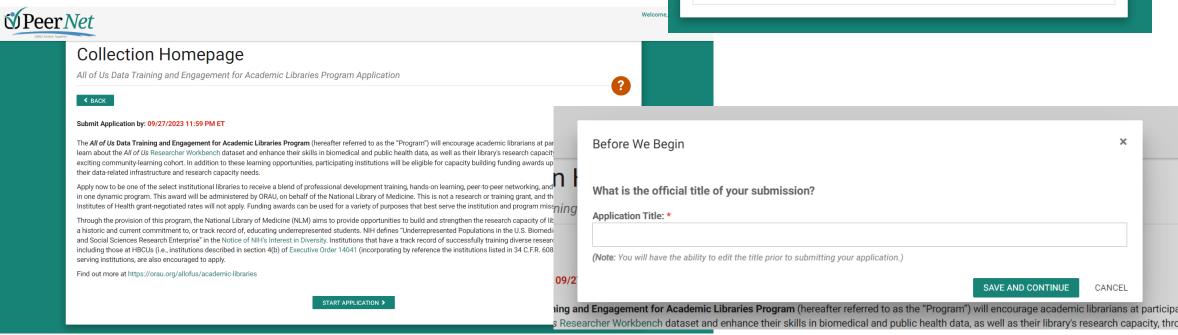
Reset Your	ussword	
New Password *		
Confirm Passwor	d *	
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Password cann	ot be one of your previous five passwords	
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Start the Application

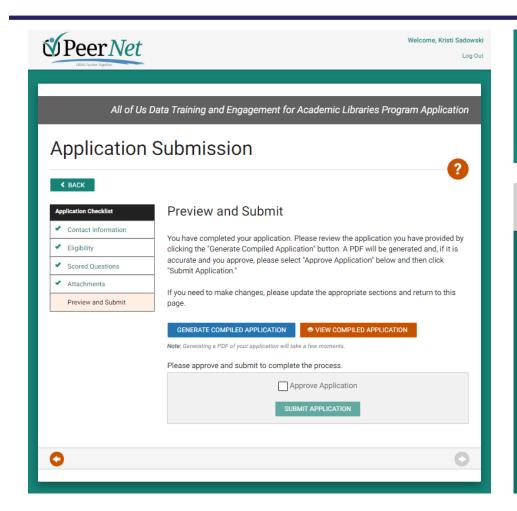


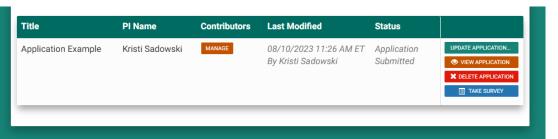


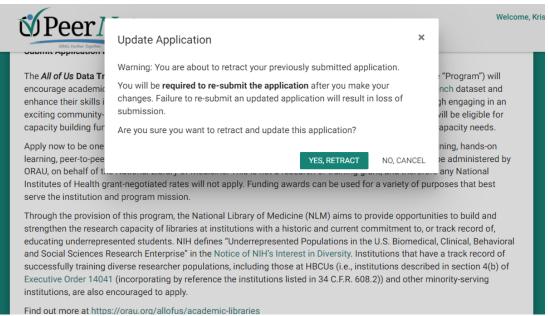




Submit the Application











Application Selection

- ORAU will review applications for eligibility and completeness.
- Applications will then be reviewed by a review committee, who will make final selections based on reviewer results.
- An <u>Evaluation Rubric</u> is provided.
- ORAU will notify applicants if they are selected for the program in October 2023.



Additional Information

Key Dates

Administrative Information Session





Key Dates

September 29, 2023, at 11:59 p.m. Eastern Time - Application Deadline

Mid to Late October - Selection Notification

Candidates are notified of selection and will receive an offer email to accept or decline participation in program.

November – September 2024 - Program Participation

Institution onboarding will begin in late October or early November 2023.



Info Session for Administrators

- Benefits to Institution
- Benefits to the Campus Community

Garner Support and Invite your Leadership!

Wednesday, September 13th at 1pm EST

Webinar Registration - Zoom (zoomgov.com)





Questions?



Submit in the Q&A

Email us at NLMAllofUs@orau.org

Visit https://orau.org/allofus/academic-libraries.html

for FAQs, application link, and more!

