



# ORCID Lightning Talk

*January 18, 2024*



**Shawna Sadler**, Engagement Manager

# A Few ORCID Facts

- Provide a unique iD to researchers
- Research infrastructure services
- Independent not-for-profit open to participation by all
- Registry launched in 2012
- Sustained by fees from our member organizations
- Community-governed by a Board of Directors representative of our membership



# Open Researcher and Contributor Identifier, provides three main services



1. The ORCID iD  
A unique, persistent identifier free of charge to researchers  
<https://orcid.org/0000-0002-6103-5034>

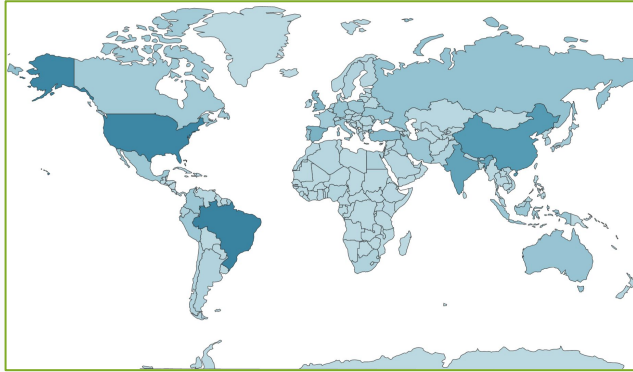


2. An ORCID record/profile  
Connected to the ORCID iD, that can include employment, education and research output metadata

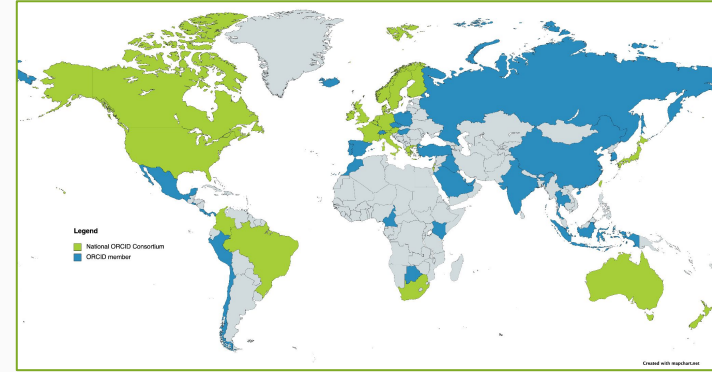


3. Application Programming Interfaces (APIs)  
To enable the data exchange between ORCID records and member organizations

# We have broad adoption around the world



**Users in every country**



**Member organizations  
in 57 countries**

Yearly Active Researchers

**8.03M**

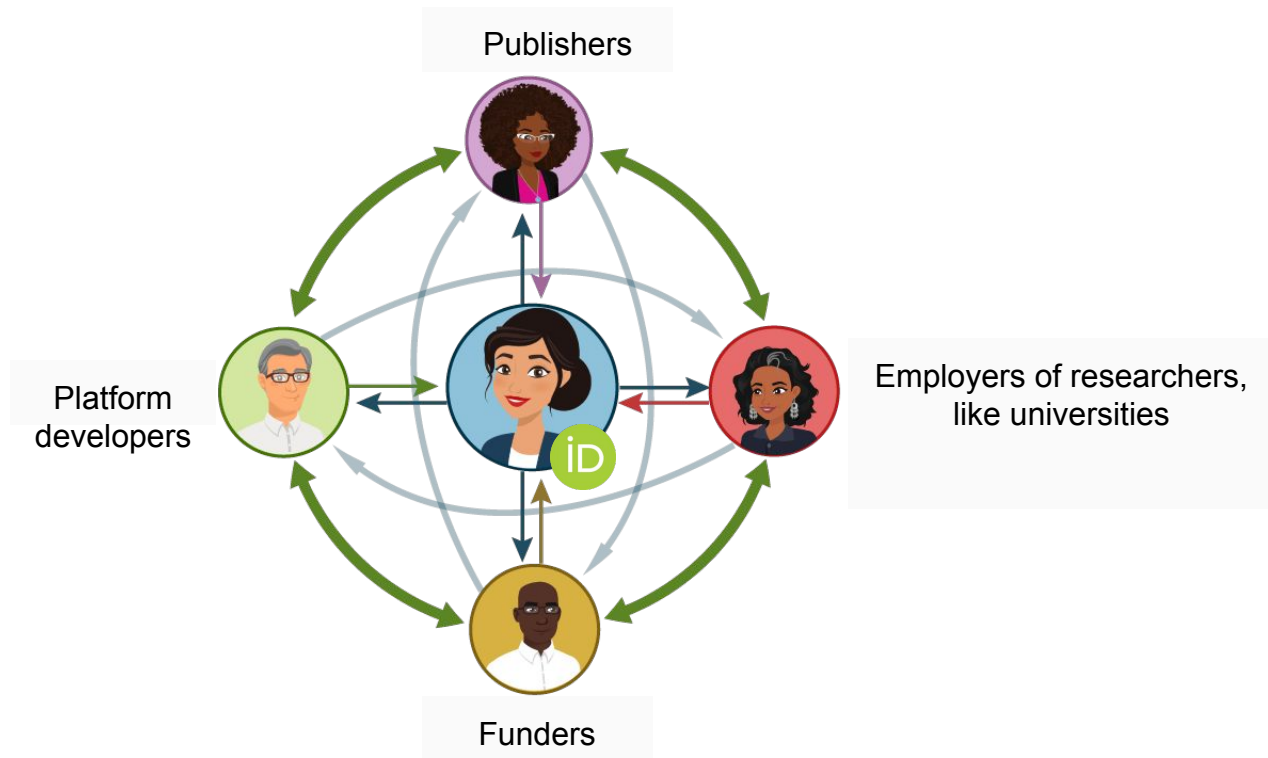
Organizational  
Members

**1,369**

Active Integrated  
Member Systems

**5,429**

# ORCID is the hub for an immense amount of profile activity with over 4,700 interconnected systems



# 27 Research Facilities are members of ORCID

- ❖ ACCESS
- ❖ Advanced Photon Source
- ❖ Anses
- ❖ Argonne Leadership Computing Facility
- ❖ Argonne National Laboratory Library
- ❖ Brookhaven National Laboratory
- ❖ Center for Nanoscale Materials
- ❖ Centers for Disease Control
- ❖ Deutsche Nationalbibliothek
- ❖ Diamond Light Source
- ❖ DOE Office of Scientific & Technical Info
- ❖ Environmental Protection Agency
- ❖ Food and Drug Administration
- ❖ Fusion Energy Sciences
- ❖ Howard Hughes Medical Institute (HHMI)
- ❖ Lawrence Berkeley National Laboratory
- ❖ Los Alamos National Laboratory
- ❖ NASA
- ❖ NIST
- ❖ NOAA
- ❖ Oak Ridge National Laboratory
- ❖ Pacific Northwest National Laboratory
- ❖ Princeton Plasma Physics Laboratory
- ❖ U.S. Department of Transportation
- ❖ US Department of Defense
- ❖ US National Institutes of Health
- ❖ USDA

# 3 Labs activating writing data to ORCID records of their researchers since 2018

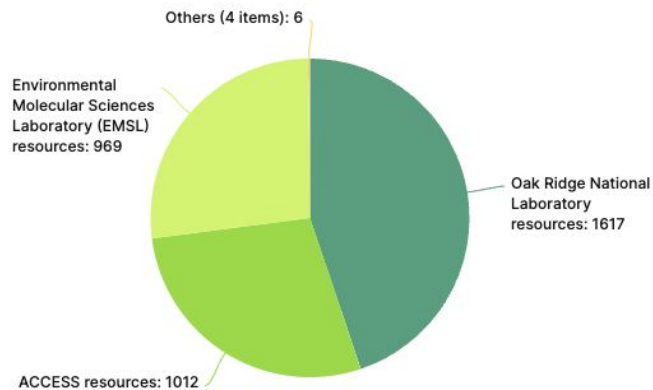
Records with research resources

2,087

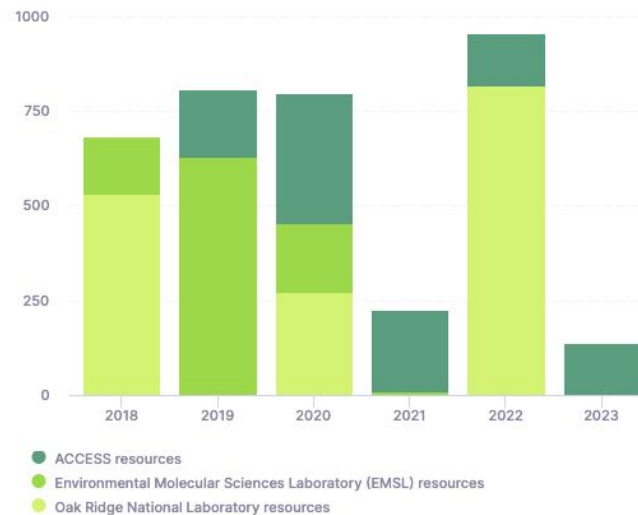
Number of research resources

3,604

Who is adding resource items?



Research resources created per year



# Example record

<https://orcid.org/0000-0001-9590-3728>

Research resources (2) Sort

Creating XIMG, the X-ray Imaging of Microstructures Gateway

Extreme Science And Engineering Discovery Environment (Urbana, Illinois, US)  
2021-04-26 to 2022-05-01 [Show less detail](#)  
URI: <https://www.xras.org/public/requests/41468-XSEDE-CHE210037>

Extreme Science And Engineering Discovery Environment (Urbana, Illinois, US)

**Organization identifiers**  
GRID: [grid.501421.3](https://orcid.org/0000-0001-9590-3728)  
Extreme Science and Engineering Discovery Environment: Urbana, Illinois, US  
<https://www.xsede.org/>

**Other organization identifiers provided by GRID**  
ROR: <https://ror.org/05524hb64>  
WIKIPEDIA\_URL:


**URL**  
<https://www.xras.org/public/requests/41468-XSEDE-CHE210037>

**Added**  
2021-04-27

**Last modified**  
2023-03-23

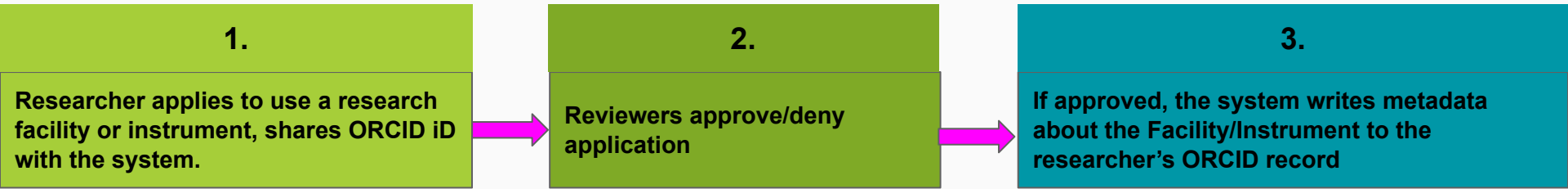
● INFRASTRUCTURES **SDSC Dell Cluster with AMD Rome HDR IB (Expense)** [Show more detail](#)

● INFRASTRUCTURES **SDSC Expense Projects Storage** [Show more detail](#)

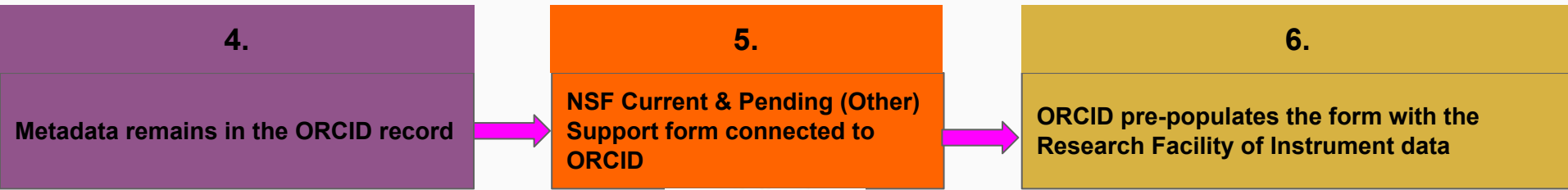
Source:  ACCESS



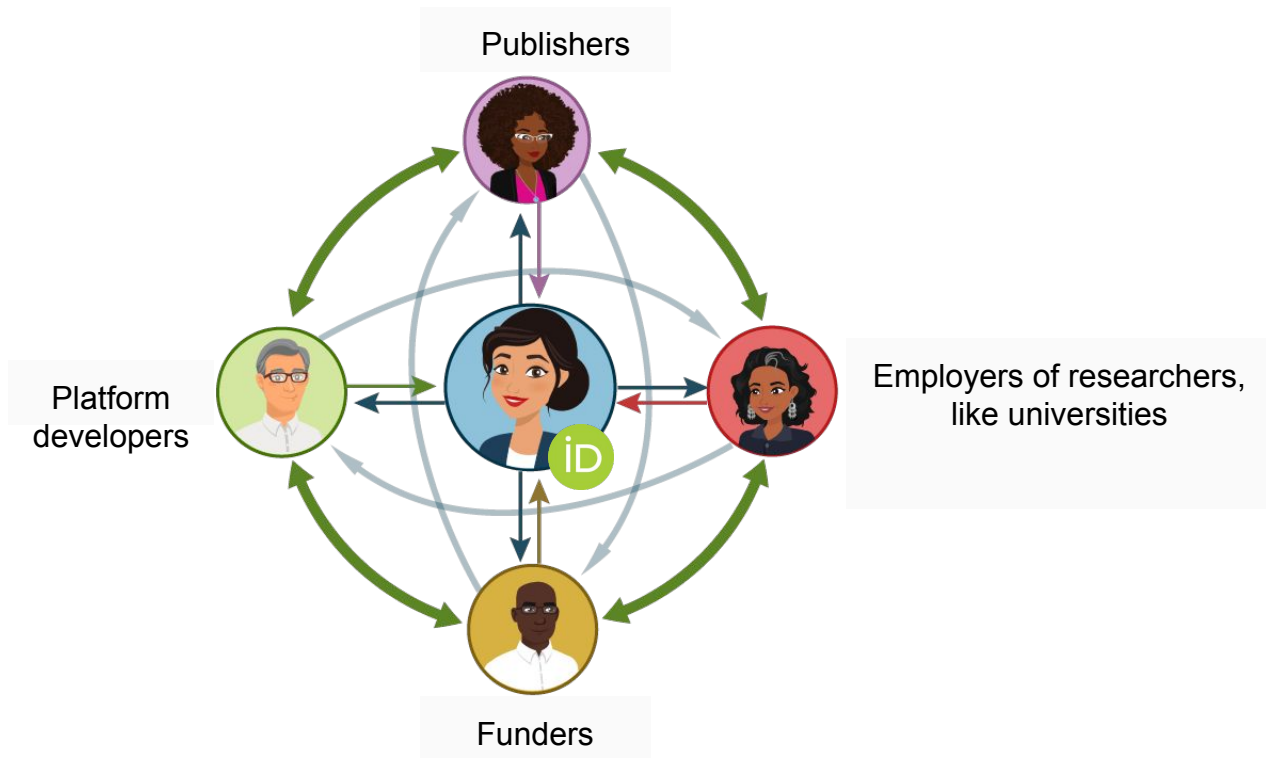
# Workflow: ORCID & Research Facility / Instrument



# Workflow: ORCID & Research Facility / Instrument



# ORCID is the hub for an immense amount of profile activity with over 4,700 interconnected systems



# Example record

<https://orcid.org/0000-0002-7669-3072>



Research resources (2) Sort

Deciphering interactions hypothesized to lead to high productivity in high pH-high alkalinity phototrophically driven microbial communities Show less detail

Environmental Molecular Sciences Laboratory (Richland, WA, US)  
Joint Genome Institute (Berkeley, CA, US)  
2019-10-01 to 2021-03-31  
DOI: [10.25582/v01\\_proj\\_2019\\_50943](https://doi.org/10.25582/v01_proj_2019_50943)  
OTHER-ID: [Project ID 505601](#)

Environmental Molecular Sciences Laboratory (Richland, WA, US)

**Organization identifiers**  
GRID: [grid.436923.9](#)  
Environmental Molecular Sciences Laboratory: Richland, Washington, US  
<http://www.emsl.pnl.gov/emslweb/>

**Other organization identifiers provided by GRID**  
ISNI: [0000000403736523](#)  
ORGFREF: 19642725  
ROR: <https://ror.org/04rc0xn13>  
WIKIDATA: [Q5381141](#)  
WIKIPEDIA\_URL: [https://en.wikipedia.org/wiki/Environmental\\_Molecular\\_Sciences\\_Laboratory](https://en.wikipedia.org/wiki/Environmental_Molecular_Sciences_Laboratory) (preferred)

**Added**  
2019-07-25  
**Last modified**  
2019-07-25

Joint Genome Institute (Berkeley, CA, US)

**Organization identifiers**  
GRID: [grid.451309.a](#)  
Joint Genome Institute: Berkeley, California, US  
<http://jgi.doe.gov/>

**Other organization identifiers provided by GRID**  
ISNI: [000000040449479X](#)  
ROR: <https://ror.org/04xm1d337>  
WIKIDATA: [Q3183039](#)  
WIKIPEDIA\_URL: [https://en.wikipedia.org/wiki/Joint\\_Genome\\_Institute](https://en.wikipedia.org/wiki/Joint_Genome_Institute) (preferred)

**Added**  
2019-07-25  
**Last modified**  
2019-07-25

● INFRASTRUCTURES **EMSL Facility** Show more detail

● INFRASTRUCTURES **Joint Genome Institute** Show more detail

**Source:** ✓ Environmental Molecular Sciences Laboratory (EMSL)

# Example record

<https://orcid.org/0000-0001-5284-2339>



Research resources (7) Sort

Neutron Beam Award at Spallation Neutron Source (SNS) Show less detail

Oak Ridge National Laboratory (Oak Ridge, TN, US)  
2021-07-01 to 2021-12-31  
SOURCE-WORK-ID: IPTS-27170, IPTS-27284

Oak Ridge National Laboratory (Oak Ridge, TN, US)

**Organization identifiers**  
RINGGOLD: 6146  
Oak Ridge National Laboratory: Oak Ridge, TN, US

**Other organization identifiers provided by RINGGOLD**  
ISNI: [000000404462659](https://orcid.org/000000404462659)  
OFR: <http://dx.doi.org/10.13039/100006228>

**URL**  
<https://neutrons.ornl.gov>

**Added**  
2022-01-10

**Last modified**  
2022-01-10

EQUIPMENT CORELLI, HYSPEC, POWGEN Show less detail

URI: <https://neutrons.ornl.gov>  
Oak Ridge National Laboratory (Oak Ridge, TN, US)

**Organization identifiers**  
RINGGOLD: 6146  
Oak Ridge National Laboratory: Oak Ridge, TN, US

**Other organization identifiers provided by RINGGOLD**  
ISNI: [000000404462659](https://orcid.org/000000404462659)  
OFR: <http://dx.doi.org/10.13039/100006228>

**Source:** Oak Ridge National Laboratory

# ORCID member organizations add validated information

When an ORCID member updates an ORCID record, the source (provenance) of that update is captured for re-use:

- Research organizations add affiliations
- Publishers add outputs and review activity
- Funders add funding items



These provide 'trust markers' that can be used to help in decision making.



University of Oxford: Oxford, Oxfordshire, GB

(Said Business School)  
Employment

Source: ORCID Integration at the University of Oxford

▼ Review activity for **British journal of Cancer** (1)

Journal, British journal of Cancer  
ISSN: [1532-1827](#)

Review date: 2020-11-16

Type: Review

Role: Reviewer



Source: Nature Publishing Group

# Benefits to Facility Administrators

1. Structure the administrative data with PIDs to make your data interoperable with external systems
2. Collect live data about publications and funding related to your Facility
3. Collect, analyze and report on this data
4. Provide ROI data to your stakeholders
  - a. Researchers that used your facility
  - b. Funding that was related to your facility
  - c. Publications that came as a result of your facility

# Benefits to Researchers

1. Recognition for professional activities on record
2. Easily report affiliation with the facility
  - a. NSF: Current and Pending (Other) Support form
    - i. Research affiliations
    - ii. In-Kind contributions
  - b. Annual report to employer
3. Trust, Transparency & Reproducibility of Science
  - a. Clearly identify where the research was conducted
  - b. Which instruments were used



# ORCID data feed to SciENcv: Current & Pending (Other) Support form

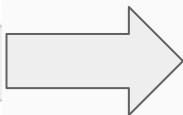
In-kind - will map data from research resources to populate the form

So researchers can disclose their affiliations easily and accurately

Research resources (7)

Neutron Beam Award at Spallation Neutron Source (SNS)

Oak Ridge National Laboratory (Oak Ridge, TN, US)  
2021-07-01 to 2021-12-31  
SOURCE-WORK-ID: IPTS-27170, IPTS-27284



### In-Kind Contribution

Summary of In-Kind Contribution \*

Ex: Office, laboratory space, students, etc.

Status of Support \*

Current  Pending

Source of Support \*

U.S. Dollar Value of In-Kind Contribution \*

Enter as USD. (Include Indirect Costs)

In-Kind Contribution Start Date \*

mm/yyyy

In-Kind Contribution End Date \*

mm/yyyy

Person Month(s) (or Partial Person-Months) Per Year Associated with the In-Kind Contribution \*

Year \*

yyyy

Person Months \*

[+ ADD YEAR](#)

Overall Objectives \*

CANCEL SAVE & ADD ANOTHER ENTRY SAVE

# Reduce the burden of administering grants and track their impact in a cost-effective way.



**Trustworthy award attribution.** Ensure the right applicant is awarded, and enable better transparency throughout the funding process. Preserve the integrity of downstream analysis.



**Enhanced ease of reviewer selection.** More complete applicant data makes reviewer selection process easier and helps to discover possible conflicts of interest. When recruiting new reviewers, program managers can assign reviews based on previous contributions and activities, even across other funders.



**Increased research ROI.** Writing rich data to ORCID records can potentially allow better tracking of research outcomes supported by your funding, ultimately leading to better resource allocation decisions.



**Accurate attribution and enhanced discoverability.** Standardized identifiers and open data can help increase discoverability, recognition, and accuracy of attribution of the research you fund or facilitate, even beyond the period of performance.

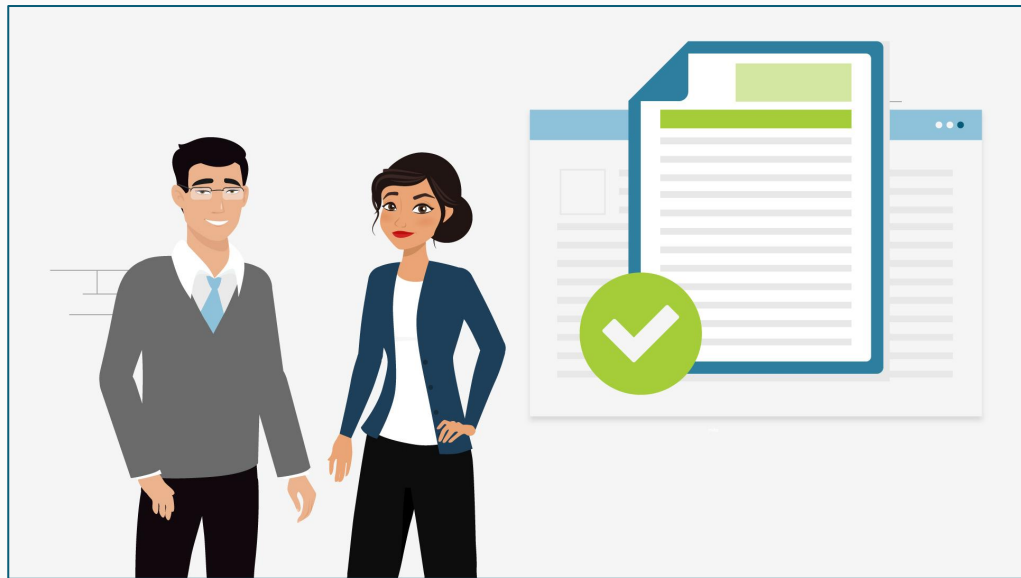








**Reduced administrative burden for both your staff and researchers.** Re-use of standardized data improves quality and accuracy and can save time, money and effort. Having users sign in with ORCID reduces their frustration and burden of managing multiple credentials and saves time during submission, review, and reporting.



**Interconnected infrastructure.** Help accelerate knowledge discovery and increase the integrity, transparency and reproducibility of research by encouraging FAIR Data Principles and Open Science practices through persistent identifiers and standardized, openly-accessible data.

# All your research information accessible via your own unique profile, to be used wherever you need it.



	<b>Uniquely yours.</b> Distinguish yourself and claim credit for your work while controlling access to your data, no matter how many people have your same (or similar) name.
	<b>Name flexibility.</b> ORCID helps reduce the negative consequences of name changes so you will no longer be limited to the name you used when you began your career.
	<b>More time for research.</b> By allowing trusted organizations to add your research information to your ORCID record, you can spend more time conducting your research and less time managing it!
	<b>Control your visibility and discovery.</b> ORCID links all your research together, while you control the visibility of each piece of data. Easily see links to your research activities in one place—affiliations, funding, publications, and other contributions.
	<b>Reduced administrative burden.</b> Experience greater ease as an increasing number of manuscript submission and grant application forms can be auto-populated when you log into their systems with your ORCID. Spend less time re-entering your data!
	<b>Portable profile data.</b> Easily share the data in your record with an increasing number of funding, publications, data repositories, and other research workflows.



Questions?

*Thank you!*

