

## Verification of ORCID ID using ORCID OAuth

What is ORCID?

ORCID is a free, unique, persistent identifier (PID) for individuals to use as they engage in research, scholarship, and innovation activities.



**What ORCID OAuth *does*:**

- Authenticates the researcher.
  - Returns a **verified ORCID iD**.
  - Confirms their identity as the owner of that iD.
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**What ORCID OAuth *does not do automatically*:**

- It **does not automatically fill your custom fields** (like department, institution, expertise areas, etc.), *unless* you specifically request additional scopes to access their profile data.
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**You have two good options here:**

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### Option 1: Basic Login (only verify ORCID iD)

- Use /authenticate scope.
- You get the ORCID iD and know they're real.
- Then you **redirect them to your own form** to fill in any missing required fields (department, research interests, etc.).

**Ideal if:**

- You want full control over what users input.
  - You don't want to deal with ORCID profile parsing.
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### Option 2: Extended Login (fetch data from ORCID)

- Use the /read-limited scope (and ask permission).
- Pull in fields like:
  - Name
  - Email (if public)
  - Institution
  - Keywords
  - Biography

- External IDs

Then you can:

- **Pre-fill** your form with this data.
- Ask users to review/edit any missing fields.

**Ideal if:**

- You want to speed up sign-up for the user.
- You're okay requesting extra permissions from ORCID.

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### **Common Flow (Hybrid Approach)**

Here's what most apps do:

1. **Login via ORCID OAuth**
2. Get ORCID iD
3. Check if they already have a profile on your platform
4. If not:
  - Go to your own registration page
  - Pre-fill data (if pulled from ORCID)
  - Force them to fill any required fields (like lab, country, etc.)
5. Save & continue

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### **Summary (for Labmate)**

Feature	Available via ORCID OAuth?	Notes
Verify ORCID iD	✓ Yes	Use /authenticate scope
Auto-fill profile info	✓ Yes (with permission)	Use /read-limited and parse profile XML/JSON
Enforce custom required fields	✗ No	You must do this on <b>your own form</b>

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If you want, I can help you set up a **custom ORCID login flow** for Labmate that:

- Authenticates users
- Pulls available data from ORCID

- Redirects to your form if anything's missing

Want the flow in HTML + Flask or React + Node?

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**You said:**

what field could be auto-filled using orcid, I have shared our login page with u

**ChatGPT said:**

Thanks for sharing the **Labmate** login page – looks super clean and professional! 🔥

To answer your question: if you integrate ORCID's OAuth with **extended scopes** (like /read-limited), you can **auto-fill several useful profile fields** from a researcher's ORCID profile.

Here's a list of fields you can potentially **fetch and auto-fill**, depending on what the researcher has made public or agrees to share:

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#### ✅ ORCID Profile Fields You Can Auto-Fill

Field in ORCID	Description	Your Labmate Field Equivalent?
<b>Given Name</b>	First name	Yes: First Name
<b>Family Name</b>	Last name	Yes: Last Name
<b>Email</b>	Public email (rarely public though)	Maybe (fallback: ask user)
<b>Institutional Affiliations</b>	Where they work or studied	Yes: Institution, Affiliation
<b>Country</b>	From affiliations or personal info	Yes: Country
<b>Biography</b>	Short personal bio	Optional: About Me
<b>Keywords</b>	Research interests, skills	Yes: Research Area, Tags, Expertise
<b>External IDs</b>	e.g. Scopus, ResearcherID	Optional for profile links
<b>Publications</b>	Work titles, DOIs, journals, etc.	Yes (optional pre-fill or import)

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#### 👉 What Labmate can do after ORCID login:

1. Pull data from ORCID.
2. Pre-fill the following fields on your form:
  - Full Name
  - ORCID iD
  - Institution (current)

- Country
- Research Interests (keywords)
- Bio

3. Let the user **edit/complete anything missing or required** before submitting.

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#### You'll need to:

- Use ORCID's /read-limited scope to get profile data.
  - Parse the XML/JSON response (ORCID supports both).
  - Map the fetched fields into your form.
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Want a code sample of how to pull this data and pre-fill a user form after ORCID login? I can show it in Python (Flask) or Node.js (Express/Next.js) depending on your stack.

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#### API Call for drop down list to choose Institution name

Having a **dropdown for institution/organization** in your Labmate login or signup page is a smart idea — it ensures **data consistency** (no typos, different spellings, etc.).

Now the big question: **how do you populate that list of institutions?**

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#### Option 1: Use an Open Global University List (Best for Scale)

You don't need to manually enter thousands of universities. Use one of these **standard datasets/APIs**:

##### Recommended: ROR (Research Organization Registry)

- Website: <https://ror.org>
- Open database of **~100,000 research institutions worldwide**.
- Provides: Name, country, aliases, acronyms, types (e.g., university, hospital).
- Easy to use: JSON-based API or downloadable dataset.

You can:

- Use the **ROR API** to load institution names dynamically as users type (autocomplete dropdown).
- OR download their CSV/JSON and use it to populate a full static dropdown.

**Example API Call** (for autocomplete):

nginx

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GET <https://api.ror.org/organizations?query=oxford>

#### Other options:

- **GRID.ac** (used in the past, now merged into ROR)
- **World Higher Education Database (WHED)** – more official but not open access

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#### Option 2: Create Your Own Minimal List (For MVP)

If you only need a small list (say, 100-200 top universities/research centers):

1. Create a simple JSON or CSV file:

json




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[  
  "Harvard University",  
  "University of Cambridge",  
  "Indian Institute of Science",  
  "Max Planck Institute for Intelligent Systems",  
  ...  
]
```

2. Use that to populate the dropdown on the frontend.



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#### Bonus Tips

-  Allow a **"Can't find my institution? Add manually"** option in case someone's org is missing.
-  Add a **searchable dropdown** (autocomplete) for better UX.
-  Store country with each institution (can be pulled from ROR too).

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#### Summary

Method	Scale	Effort	Recommended
ROR API	Global (~100k)	Medium	 Best choice
Download ROR CSV/JSON	Global	Easy	 Good for offline use

Method	Scale	Effort	Recommended
Manual List	Limited	Low	Okay for MVP/test
WHED / UNESCO	Global	Restrictive license	✗ Not ideal for open use

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Let me know your stack (React/HTML backend etc.), and I'll show you how to **build a dropdown with ROR autocomplete** or how to import the CSV easily.