

FAQ

Waveframe Labs — Frequently Asked Questions (FAQ)

Wait, is this a real lab?

Yes. It's an **independent applied research organization**, not an academic department or corporate team.

Waveframe Labs is where reproducible AI-assisted research is developed, tested, and published under open licensing.

We operate entirely through **Aurora Workflow Orchestration (AWO)** — a method that enforces falsifiability, provenance, and transparency across all reasoning steps.

Do I need to use AWO?

If you want your work to be part of the **Waveframe Labs research corpus**, yes.

AWO isn't a suggestion — it's the compliance layer that makes results independently verifiable.

You can study or remix the repositories freely, but if you diverge from the **Method Specification**, your fork is **non-compliant** and should not claim AWO compatibility.

Do I need to set up CI?

Not for **Minimum** tier.

Minimum compliance allows **manual orchestration** (no CI) as long as manifests, attestation, and checksums are present.

CI becomes **SHOULD** for **Standard** tier and effectively **MUST** for **Full** tier (CRI-CORE automation).

What is a falsifiability manifest?

A structured file defining the conditions under which a claim can be proven false.

It contains: - The **hypothesis or objective**

- **Predicted outcomes**
- **Disproof criteria**
- **Validation plan**

- **Acceptance thresholds**
- **Known risks or edge conditions**

Each manifest lives under `/templates/falsifiability-manifest.md` or inside a run directory as `manifest.json`.

Without it, no result counts as scientific under AWO.

What counts as a valid run?

- A **Run** is valid if:
1. It produces all required artifacts (`workflow_frozen.json`, `report.md`, `approval.json`, `SHA256SUMS.txt`).
 2. The run is **attested** by at least one reviewer role (see ADR-0012).
 3. All referenced files exist and match their recorded SHA-256 hashes.
 4. The falsifiability manifest is present and correctly linked.

If any of those conditions fail, the run is non-compliant and cannot be archived or cited.

Can I just fork this and run it privately?

Absolutely — all repositories are open under **Apache-2.0 (code)** and **CC-BY-4.0 (docs)**.

However, don't describe your work as "AWO-compliant" unless your fork meets every clause of the **Method Spec**.

That label implies reproducibility and auditability; misuse weakens the standard.

Who reviews contributions?

Contributors act under formal AWO roles:

| Role | Responsibility |
|-------------------|---|
| Critic | Challenges logic, tests falsifiability, and identifies weaknesses. |
| Auditor | Verifies conformance to the Method Spec and attests to result integrity (<code>approval.json</code>). |
| Maintainer | Performs final merge after checks pass and governance entries are updated. |
| Observer | Reviews passively to learn the process. |

Each contribution must include its reviewer roles in the PR or run manifest.

I don't have a research question yet.

Start small: 1. Replicate an existing run in `/runs/` to understand the process.

2. Draft a falsifiability manifest around something you're curious about — even a trivial test case.
3. Open a discussion thread in the repository to get feedback from other contributors.

The goal isn't to predict the future — it's to test your reasoning pipeline.

Who is behind this?

Waveframe Labs was founded by **Shawn C. Wright** as part of the **Aurora Research Initiative**.

It combines independent researchers, AI systems, and reproducible workflows to demonstrate **neurotransparent, falsifiable scientific collaboration** without institutional barriers.

Core governance follows the **AWO Method Specification** (docs/AWO_Method_Spec_v1.2.1.md).

I found a bug in CRI-CORE or a method issue. Now what?

Open an **Issue** in the relevant repository with:

- The observed behavior
- The expected behavior
- The commit SHA and environment
- A minimal falsifiability manifest reproducing the bug

If the issue is valid, it will be logged in `/logs/governance/` and acknowledged in the next **CHANGELOG** update.

Confirmed corrections are cited and credited publicly.

Still have questions?

Contact **swright@waveframelabs.org** — or open a GitHub Discussion tagged **question**.

Either way, the response will be logged, versioned, and auditable.

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