

# Waveframe Labs — Contributor Onboarding Guide

Welcome to **Waveframe Labs**, home of the *Aurora Workflow Orchestration (AWO)* and *Waveframe* research series.

This guide explains how to get oriented, set up your environment, and meet the minimum reproducibility standards for participation.

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## 1. Core Principles

Every repository under Waveframe Labs adheres to three enforcement pillars:

Principle	Description
<b>Reproducibility</b>	All code, reasoning, and results must be independently regenerable from committed artifacts.
<b>Falsifiability</b>	Every claim or output must be testable against a defined manifest or challenge case.
<b>Neurotransparency</b>	Each inference that affects a claim must have a traceable origin (role, artifact, or hash).

Contributors are expected to internalize these before engaging in any development or documentation work.

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## 2. Required Tools

Tool	Purpose
<b>GitHub</b>	Version control and workflow orchestration (repositories, issues, Actions).
<b>Pandoc + TeX</b>	Required to build PDFs automatically from Markdown (used in all AWO projects).
<b>Python 3.10+</b>	Used for local testing, manifest validation, and hashing utilities.
<b>SHA256 utility</b>	Any CLI or script capable of generating deterministic hashes for artifacts.
<i>(Optional)</i> <b>Streamlit / Jupyter</b>	For interactive prototypes or visualization of experiment runs.

No specialized proprietary software is required — only open, verifiable tooling.

### 3. Your First Tasks

When joining or reviewing a repository:

1. **Read the Method Spec** (`docs/AWO_Method_Spec_v1.2.1.md`)  
Understand the compliance levels and required artifacts.
2. **Run a local verification**
  - Check for `SHA256SUMS.txt` in the root.
  - Confirm all ADRs are sequential and cited.
  - Review `/runs/` for at least one attested, passing run.
3. **Create your first controlled contribution**
  - Edit or propose a small improvement (README, ADR draft, minor script).
  - Submit as a Pull Request referencing a falsifiability manifest.
  - Tag your role (e.g., `Reviewer`, `Orchestrator`, `Critic`) in the PR body.
4. **Run the applicable GitHub Actions**
  - PDF build → ensures documentation reproducibility.
  - Root SHA256SUMS workflow → updates integrity registry.

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### 4. Review Roles (Quick Summary)

Role	Responsibility	Reference
<b>Orchestrator</b>	Coordinates reasoning flow and validates procedure.	§3.1 Method Spec
<b>Auditor</b>	Independently verifies artifacts and checksums.	§3.3 Method Spec
<b>Critic / Red Team</b>	Attempts falsification or contradiction.	§3.5a Method Spec
<b>Maintainer</b>	Ensures structural compliance and governance logs are current.	ADR-0017

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### 5. Checkpoints for Acceptance

A contribution will not be merged unless:

- ☒ A valid falsifiability manifest is attached.

- ☒ The corresponding run artifact is frozen and hashed.
  - ☒ Each non-trivial decision has an ADR.
  - ☒ All files are included in `SHA256SUMS.txt`.
  - ☒ Output reproducibility is confirmed via rerun or validator.
  - ☒ No unexplained nondeterminism is present.
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## 6. Community Norms

- **Be respectful**, but prioritize precision over politeness.
  - **Assume good intent**, but require good artifacts.
  - **Document before you debate** — speculation without evidence slows everyone down.
  - **Prefer commits over comments** — progress is measurable, opinions are not.
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Welcome aboard.

If you can prove it, you belong here.

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