



# Rift: Ethereum Grant Proposal

## Abstract

Rift is a next-generation DeFi liquidity engine designed to redefine how liquidity moves across Ethereum-based ecosystems. Current staking and liquidity models are static, inefficient, and non-adaptive—Rift introduces programmable liquidity flow, multi-wallet yield distribution, and autonomous capital routing to optimize DeFi efficiency.

Ethereum's DeFi infrastructure is ripe for innovation. Rift enhances staking flexibility, real-time capital deployment, and cross-chain liquidity migration, aligning with Ethereum's core mission of decentralized finance accessibility and efficiency.

This proposal seeks Ethereum Foundation funding to build Rift's smart contract architecture, deploy initial prototypes, and integrate with key Ethereum-native DeFi protocols like AAVE, Compound, and Lido. Funding will enable us to develop, audit, and deploy Rift as an open-source infrastructure project that enhances Ethereum's liquidity layer.

## Project Description

### **The Problem:** Stagnant DeFi Liquidity

DeFi liquidity is broken—most staked capital is locked into static pools, reducing capital efficiency. Existing staking and yield farming models serve protocols, not users, leading to:

- ✓ **Capital Inefficiency:** Liquidity providers can't dynamically reallocate capital based on market conditions.
- ✓ **Limited Yield Flexibility:** Staking rewards are deposited into single wallets, restricting movement.
- ✓ **Liquidity Fragmentation:** Yield distribution remains isolated within individual wallets, creating inefficiencies.

Ethereum needs a programmable liquidity infrastructure that enables yield to move dynamically, not just accumulate.

## The Solution: Rift's Programmable Liquidity Engine

Rift enables real-time, automated liquidity movement through:

- ✓ Multi-Wallet Yield Sharing: Staking rewards can be distributed across multiple wallets automatically.
- ✓ Proxy Staking Model: Instead of static rewards, yield is dynamically routed based on real-time market triggers.
- ✓ Autonomous Capital Allocation: Liquidity automatically moves to the highest-yielding or most strategic position.
- ✓ Cross-Chain Adaptability: Rift's framework is EVM-compatible, enabling integration across Ethereum Layer-2s and beyond.

Ethereum's DeFi ecosystem will benefit from smarter liquidity, allowing protocols to optimize capital efficiency without requiring users to manually intervene.

## Research Contribution & Open-Access Output

To align with Ethereum's research grant requirements, Rift will contribute to open-source DeFi liquidity research, including:

- Liquidity Fragmentation Study: Analyzing inefficiencies in staking, lending, and liquidity provider models.
- Capital Routing & Market Efficiency Research: Studying how programmable liquidity can improve capital movement across Ethereum-based protocols.
- Open-Source Smart Contract Simulations: Developing a publicly available repository of contract simulations to test programmable liquidity flows.
- Ethereum Ecosystem Case Study: Evaluating Rift's impact on AAVE, Compound, and Lido through testnet implementation.
- Published Reports & Open-Access Code: All research findings will be published under a free and permissive license for the Ethereum community.

Rift will ensure that all research output is openly available, advancing Ethereum's broader DeFi infrastructure.

## Research Methodology

Rift's research initiative will follow a structured approach to ensure credibility and transparency:

1. Data Collection: Gathering historical data on staking inefficiencies and capital bottlenecks.

2. Smart Contract Simulations: Running controlled liquidity movement scenarios on Ethereum testnets.
3. Algorithm Development: Designing and testing dynamic liquidity allocation strategies.
4. Peer Review & Community Feedback: Engaging Ethereum researchers and developers for analysis.
5. Publication: Publishing final reports and smart contract models under an open-source license.

## Governance & Security Considerations

### Governance Model

- Phase 1: Centralized development and research execution.
- Phase 2: Community-driven contributions through open research and grants.
- Phase 3: Decentralized governance model with liquidity governance voting.

### Security Framework

- Rigorous Smart Contract Audits (OpenZeppelin, Trail of Bits, or CertiK).
- Stress Testing & Simulation Analysis before deployment.
- Bug Bounty Program post-testnet to incentivize security researchers.

## Scope of Work & Development Timeline

### Phase 1: Research & Smart Contract Development (\$250K)

Timeline: 3-4 Months

- Conduct liquidity fragmentation research and publish findings.
- Develop Rift's core smart contract architecture (Solidity, EVM-compatible).
- Implement multi-wallet yield routing mechanism.
- Initial unit testing & security assessments.
- Deploy a testnet version of Rift for internal evaluation.

### Phase 2: Testnet Deployment & Integrations (\$500K)

Timeline: 4-6 Months

- Public deployment on Ethereum testnet.
- Integrate with AAVE, Compound, and Lido.
- Develop liquidity monitoring dashboards for research and user interface testing.
- Begin code audits and stress testing.
- Publish additional research findings based on testnet performance.

## Phase 3: Mainnet Deployment & Security Audits (\$750K)

Timeline: 6-8 Months

- Finalize Rift's mainnet deployment on Ethereum.
- Execute third-party security audits (OpenZeppelin, Trail of Bits, or CertiK).
- Launch user-friendly dApp & governance structure.
- Expand cross-chain functionality (Optimism, Arbitrum, Polygon).
- Publish final Ethereum research report summarizing Rift's impact.

Total Funding Request: \$1.5M

## Public Repository & Work Samples

- GitHub Repository: [@strnghrt - Overview](#)
- Rift Litepaper (PDF): <https://github.com/strnghrt/Rift-Liquidity-Research>
- Testnet Deployment (Planned for Phase 1).

## Conclusion: Why Ethereum Grants Should Fund Rift

Ethereum's DeFi space needs programmable liquidity. Rift is an open-source, smart contract-driven protocol that enables:

- ✓ More efficient yield routing
- ✓ Dynamic capital optimization
- ✓ Cross-chain liquidity migration

By funding Rift, **Ethereum gains a liquidity control layer that enhances capital efficiency across staking, lending, and yield farming protocols.**

Ethereum thrives when liquidity moves with intelligence—**Rift makes that a reality.**