

Grant Title:

Open Sourcing ZeroMEV and Funding Its Maintenance

Author:

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About You:

Pmcgoohan has a 20-year career in developing automated trading systems and has been involved in Ethereum since before the pre-sale. His work includes the EthInclude project and contributions to discussions on MEV and builder centralization. He founded ZeroMEV in 2021 with an Ethereum Foundation grant.

Additional Links:

- Website: zeromev.org
- Twitter: [@pmcgoohanCrypto](https://twitter.com/pmcgoohanCrypto)
- GitHub: [pmcgoohan](https://github.com/pmcgoohan)
- [Miners frontrunning post \(2014\)](#)
- [Estimate frontrunning estimator](#)
- [Builder centralization warning](#)
- [Coindesk article](#)
- [EthGlobal](#)
- [YouTube](#)

Grant Description:

ZeroMEV seeks funding to continue providing essential Miner Extractable Value (MEV) data services to the Ethereum community until the end of 2024. This funding will cover infrastructure and maintenance costs, ensuring the continued operation of the ZeroMEV API, website, and Ethereum nodes. The project will also be open-sourced by the end of 2024.

Key components of the project include:

1. Maintaining the ZeroMEV API providing MEV summary data for each relevant transaction.
2. Ensuring the ZeroMEV website remains operational and accessible.
3. Continuing to run Ethereum nodes that collect transaction data for real-time MEV classification.
4. Open-sourcing the ZeroMEV project code.

Grant Goals and Impact:

The goals of this grant are to:

1. Maintain a critical source of MEV data for the Ethereum community.
2. Promote transparency and awareness of MEV issues.
3. Support research and development in MEV mitigation.
4. Provide reliable data sources for the Ethereum community and related projects.
5. Open-source the ZeroMEV codebase to enable community contributions and potential optimizations.

The impact of this grant will be significant for the CoW Protocol ecosystem and the broader Ethereum community. ZeroMEV plays a vital role in enhancing transparency around MEV on Ethereum. Many MEV research papers and community discussions on ethresear.ch have cited ZeroMEV, making it important to keep available for the completeness of those citations and for future research.

Milestones:

Milestone

Due Date

Payment

Milestone 1

31.12.2024

6,000 xDAI

Milestone 2

31.12.2024

4,000 xDAI

Milestone 1

Maintain continuous operation of the ZeroMEV API, website, and Ethereum nodes.

Milestone 2

By the end of 2024, ZeroMEV will:

- Open-source the ZeroMEV project code, making it available on a public repository.
- Documentation
- Code examples for deploying and running the services

Funding Request:

We are requesting 10,000 xDAI from CoW Grants to support the continuation of ZeroMEV services until the end of 2024.

Budget Breakdown:

6,000 xDAI will be allocated to infrastructure and maintenance costs, and paid upon approval of the grant:

- Server costs for running multiple nodes across the globe
- Data collection and processing
- API and website hosting
- Ongoing maintenance and updates

4,000 xDAO will be paid upon completion of milestone 2

Gnosis Chain Address (to receive the grant):

0x022a0D82f00Ed885f3707B92279Aa8528dc1b0A0

Terms and Conditions:

By submitting this grant application, I acknowledge and agree to be bound by the CoW DAO Participation Agreement and the CoW Grant Terms and Conditions.