Thank you for your submission. Your Letter of Inquiry to Wallace Global Fund has been submitted successfully, and the tracking number is 28875. You will be receiving more information on the status of your application as soon as possible. For your records, here is a copy of the contents of your application.

Organization Information

Legal Name

Populated with the name of organization or fiscal sponsor associated with the Tax ID number entered previously

Terra Foundation

Organization Name

Populated with the name of organization or fiscal sponsor associated with the Tax ID number entered previously. If using a fiscal sponsor, please change this to the applicant organization name.

Open Source Ecology

Also Known As

Please enter any nicknames or acronyms used by the organization.

Street Address

PO Box 442

City

Maysville

State

MO

Zip Code

64469

Organization General Telephone

Please use the following format: (###) ###-####

(816)846-0736

Organization Fax

Please use the following format: (###) ###-####

Website

http://opensourceecology.org

Organization's Annual Budget

2200000.00

Contact Information

Organization Primary Contact
Example: Executive Director or CEO

Prefix
Dr.

First Name
Marcin

Middle Name or Initial

Last Name
Jakubowski

Suffix
Ph.D.

Title
Executive Director/Founder

E-mail
opensourceecology@gmail.com

Office Phone
Please use the following format: (###) ###-####

(816)846-0736

Extension

Office Fax
Please use the following format: (###) ###-####

Mobile Phone
Please use the following format: (###) ###-####

Program/Project Primary Contact

Same as Organization Primary Contact

Prefix
Mr.

First Name
Aaron

Middle Name or Initial
McClain

Last Name
Makaruk

Suffix
<None>

Title
Development Officer

E-mail
aaronmakaruk@gmail.com

Office Phone
Please use the following format: (###) ###-####

(303)861-4652

Extension

Office Fax
Please use the following format: (###) ###-####

Mobile Phone
Please use the following format: (###) ###-####

Program/Project Information

Program/Project Title
Brief name or description of project (20 words or less)

The Global Village Construction Set

Mission Statement

Describe the mission and history of your organization (100 words or less)

Open Source Ecology addresses the root causes of poverty, societal injustice, and the environmental crisis. We are accelerating a process that is unfolding throughout the economy. It is now technically possible to create high living standards throughout the world with a simple formula of technology and applied knowledge. We serve as a focal point at the center of a global collaborative effort to drive down the costs of this technology and make it as widely available as possible, and we facilitate the process by managing a technology development pipeline, hands on training, and distance learning programs.

Program/Project Description

Describe the goals of the program/project, specific objectives, and accompanying strategies (1000 words or less)

Our goal is to complete the Global Village Construction Set (GVCS), an open source, low cost, high performance technological platform of the 50 machines most responsible for high living standards in many parts of the world. The GVCS lowers the barriers of entry into manufacturing, construction, and agriculture and can be used to create small enterprises or entire economies, whether in rural Missouri, where the project was founded, in urban redevelopment, or in the heart of Africa.

The GVCS development pipeline is a four step process that covers research/design, prototyping, field testing, and documentation. In parallel, we manage the Open Source Ecology Fellowship Program to train individuals how to fabricate their own productive capital and use it to establish their own small businesses. We also provide extensive documentation to facilitate independent replication of the technology and enterprise models anywhere in the world. Documentation includes the following: (1) design rationale; (2) 3D CAD files; (3) 2D fabrication drawings; (4) CAE analyses; (5) CAM files (where applicable); (6) exploded parts diagrams; (7) bills of materials and sourcing information; (8) scaling calculations; (9) A-Z instructionals; and (10) cost and performance comparisons to industry standards. All documentation is openly available on our website, along with high-quality video tutorials showing how to fabricate the machinery.

The Global Village Construction Set contains multiple clean energy technologies including a biomass pelletizer, gasifier/burner, modern steam engine, solar concentrator, and wind turbine. These technologies are currently available on the retail market, but they more expensive and less resilient than our designs will ultimately be. Since open source technology is free to apply for anyone, anywhere, it is rigorously tested. We actively evaluate the feedback of people who independently replicate the technology, and this accelerates the process of innovation leading to more elegant designs that are increasingly more affordable. In order to prevent the worst case scenarios of the impending climate crisis, we need to quickly distribute renewable energy technology to reduce carbon emissions. And, in order to prepare for the worst case scenarios of the impending climate crisis, we need to rapidly disseminate manufacturing technology that re-localizes production, because it backs up the petroleum-based goods distribution system making our civilization more robust as we face an uncertain future.

The average cost for the complete development of each of the 50 machines is $43,700. Each machine is researched and designed by mechanical engineers, undergoes three rounds of prototype testing, and is extensively documented by mechanical draftsmen, technical writers, video producers, and industrial designers (AutoCAD). The outcome of this process is the open publication of a complete machine design in its first iteration (version 1.0). From there, the technology is integrated into our fellowship training program and independently replicated throughout our network, and further revisions and expanded adoption continue indefinitely. The long-term outcome of a strategic grant investment is a piece of productive technology that will support individuals, communities, and enterprises for decades, across generational lines and throughout the world.

The goals of the Wallace Global Fund are to ''promote an informed and engaged citizenry, to fight injustice, and to protect the diversity of nature and the natural systems upon which all life depends." Our work aligns with this vision in multiple ways. We are reskilling (informing) the economy by training producers to create not only business but also their own capital, which leads to a more just economy. Currently, the majority of the population depends on large corporations for their job or on the Federal Government to support them in times of need. We are accelerating the development of an economy where our livelihoods are not based on having a job or government assistance, but are instead based on how well local resources are managed and integrated into the total economic ecology of the regions we live in. Injustice, be it economic, political, or environmental, exists where power is concentrated in the hands of people and organizations that are unaccountable. There are two ways of addressing this problem: either force them to become accountable, or become independent of their power. We are supporting the latter option by creating a parallel economy based on collaboration and the open sharing of information, so that we no longer need to depend on

unaccountable institutions to safeguard our environment, wealth, or way of life.

Total Project Budget

If you are applying for general operating support, please leave blank. Youl will be required to attach an organizational budget at the end of this application.

0.00

Request Amount

43700.00

Term

(In whole months)

12

Program/Project Start Date

Program Area

Please select up to 2 program areas to be addressed by your program/project

ENVIRONMENT
    CORP ACCOUNTABILITY/GLOBALIZATION

Other Funding Sources

Please list up to 4 secured and 4 pending sources of support, with a minimum of 2 secured and 2 pending.

Secured Funding Source #1

Ewing Marion Kauffman Foundation

Secured Funding Source #1 Amount

100000.00

Secured Funding Source #2

(anonymous foundation)

Secured Funding Source #2 Amount

46000.00

Secured Funding Source #3

(anonymous foundation) (same source)

Secured Funding Source #3 Amount

60000.00

Secured Funding Source #4

(to be announced)

Secured Funding Source #4 Amount

360000.00

Pending Funding Source #1

Surdna Foundation

Pending Funding Source #1 Amount

330000.00

Pending Funding Source #2

Rockefeller Brothers Fund

Pending Funding Source #2 Amount

100000.00

Pending Funding Source #3

Draper Richards Kaplan Foundation

Pending Funding Source #3 Amount

300000.00

Pending Funding Source #4

Alfred P. Sloan Foundation

Pending Funding Source #4 Amount

125000.00