

OF INTEREST TO:

Universities, Educational Organizations

- for students and researchers
- to create new tools of carbon measurement and analysis

zerofootprint™

ZEROlab™

Located in key universities in order to create a network for carbon reduction information exchange and open source software development.

OVERVIEW → The ZEROlab™ creates for environmental research what the celebrated Algorithmics RISKlab initiative created for scientific investigation into financial market risk—a structured platform for measurement and analysis.

The ZEROlab™ mission is to provide facilities where researchers in science, engineering, architecture, business, and politics have the collaboration tools needed to understand and create sustainable buildings and cities. ZEROlabs™ will be located in key universities to create a network for carbon reduction information exchange and open source software development.

THE CHALLENGE → The labs respond to a great challenge facing our nations—the threat of global climate change. Building and maintaining our cities produces the majority of the carbon dioxide driving climate change. Surprisingly, unlike cars that require fuel-efficiency ratings, the energy efficiency of our buildings and cities is unknown. For example, SUV's create approximately 3% of North America's CO₂. Cities produce more than 50%, but we know more about automobile efficiency than we do about the major cause of our environmental footprint—the built environment.

COLLABORATION TOOLS

→ The ZEROlab™ will work to make building carbon efficiency visible and measurable.

ZEROlab™ students and researchers will engage in a structured process of experimentation to create new tools of carbon measurement and analysis. All their activities will be open-sourced to the lab community, a strategy intended to accelerate the network benefits of their collective research.

ZEROlabs™ will provide the tools and software infrastructure needed by researchers to begin their investigations into carbon footprint analysis. Furthermore, the labs will be a repository for the ongoing carbon measurement and benchmarking of building types, institutions, businesses, and cities. That information, when made available on an open source basis, will allow developers and policy-makers to better understand the benefits of efficient design and development.

ABOUT ZEROFOOTPRINT

→ Zerofootprint is a socially responsible enterprise whose mission is to apply technology, design and risk management to the massive reduction of our environmental footprint. We operate both in the for-profit and charitable domains through two entities, Zerofootprint Software and Zerofootprint Foundation using shared technology.