



THE UNIVERSITY OF AKRON

Biomimicry Research & Design Fellowship 2016



The
University
of Akron

sponsored by



Cleveland Water Alliance, in partnership with Biohabitats, Inc., is seeking applicants for a 5-year **Biomimicry Research Fellowship** in the Integrated Bioscience PhD Program at the University of Akron.

This is a wonderful opportunity to explore how ecomimicry and biomimicry can be used hand-in-hand to help solve some of cities' most pressing problems related to waterfront growth, stormwater management, and urban sustainability. Research and design work will focus on bio-inspired ways to improve urban stormwater runoff and industrial discharges entering Lake Erie, along with ways to enhance aquatic habitat along the urbanized shoreline of Lake Erie.



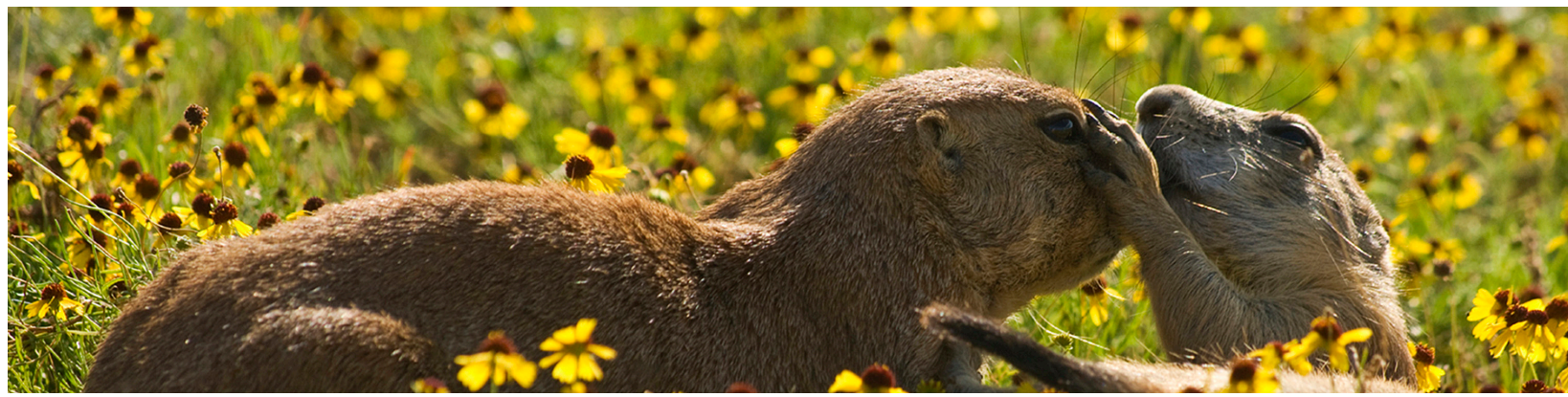


RESEARCH PROGRAM

The Biomimicry Fellow will pursue PhD research through the Integrated Bioscience PhD Program at the University of Akron in the following areas:

- 1 Developing biomimicry-inspired solutions to improve water quality associated with stormwater runoff, point source discharge, and urban shoreline stabilization;
- 2 Preparing design guidelines, protocols, and policy frameworks for integrating the biomimicry process into stormwater management, green infrastructure, and shoreline stabilization/enhancement; and
- 3 Delivering workshops to interested private and public sector groups, with a focus on the Northeast Ohio region.





WORK PROGRAM

The Biomimicry Fellow, working in Biohabitats' Great Lakes Bioregion office in Cleveland, Ohio, will work on a variety of initiatives, projects, and programs including, but not limited to:

- Developing biomimicry inspired solutions to improve water quality associated with stormwater runoff, point source discharge, and urban shoreline stabilization;
- Preparing design guidelines, protocols, and policy frameworks for integrating the biomimicry process into stormwater management, green infrastructure, and nearshore and shoreline stabilization/enhancement;
- Delivering biomimicry workshops to interested private and public sector A/E/P and Env groups, all with a focus on the Northeast Ohio region;
- Integrating the biomimicry process into Biohabitats' work flow, design, and research and development processes; and
- Developing biomimicry inspired products and best practices.

We seek someone with a passion for clean water, urban ecology, and making a difference in people's lives. We see opportunities for candidates with interests and/or experience in many areas including, but not limited to the following:

- Urban/Restoration Ecology
- Ecological Engineering
- Water Resource Planning/Engineering
- Urban Design
- Landscape Architecture
- Industrial Design

The successful applicant must be:

- Self-motivated
- Someone who embraces the ambiguous and unpredictable nature of the innovation process
- Pro-active
- A creative thinker
- A good communicator
- Accountable & responsible



This is a great opportunity for a student to make a difference. We are looking for someone who is passionate about what they do and is eager to positively affect the Great Lakes and the world.

Fellowships include an annual stipend from the sponsor and a tuition credit from the University of Akron that fully covers graduate tuition. In return for the stipend, the Biomimicry Fellow will spend ~ 20 hours per week working for the co-sponsors in Biohabitats' Great Lakes Bioregion office in Cleveland, Ohio.

To learn more about the Fellowship, please visit the [Biomimicry Fellowship](#) page of the Biomimicry Research and Innovation Center website. The successful applicant will join 15 current Biomimicry Fellows sponsored by a diverse array of companies and organizations.

Please contact the Director of Biomimicry Fellowships, [Peter H. Niewiarowski](#) (phn@uakron.edu), for more information before applying.

Visit the [Cleveland Water Alliance](#) and [Biohabitats](#) websites to learn more about the two sponsors of this Fellowship.

