

# RENSSELAER | ARCHITECTURE

## M.S. AND PH.D. IN ARCHITECTURAL SCIENCES - BUILT ECOLOGIES



**PROGRAM DESCRIPTION:** The PhD and Masters programs in Built Ecologies at the Center for Architecture Science and Ecology (CASE) are a response to the unprecedented potential to cross-pollinate experimental methodology and knowledge from a diverse array of research cultures towards new ideas for the built environment. New modes are sought for considering the interdependent relationships between our built systems and the so-called “natural” systems with which they intersect. As challenges for creating environments intensify, the compartmentalization that characterized experimentation and research within academia becomes less and less tenable, just as the environmental challenges become ever more vast. Transformative methods are needed to metabolize energy, water, and materials in new ways that support biodiversity and well-being.

The Built Ecologies program aims to embrace an inclusive research agenda to re-integrate technical modes of inquiry within the theoretical, cultural, and aesthetic aspirations of architecture. Traditionally buildings have been viewed as “protective” barriers mitigating the forces of wind, temperature, light and humidity. Built Ecologies shifts this conceptual frame work to consider buildings as mediators that intersect and engage energy flows, and ultimately as translators of ambient energetic forces that can capture, transform, store and redistribute available energy flows as regenerative, rather than detrimental, to the built environment.

The program offers MS and PhD degrees in Architectural Sciences with a concentration in Built Ecologies. Coursework is taught in New York City at the Center for Architecture Science and Ecology (CASE), a unique educational and research program with a broad set of industry partnerships.

The MS and PhD programs are designated as STEM programs in Architectural and Building Sciences/Technology (CIP code 04.0902) making international graduates eligible to extend their F-1 visas for up to three years in order to work in the United States.

**ELIGIBILITY:** The Built Ecologies program attracts students with backgrounds in architecture and design, engineering, physics, biology, and ecology.

**Deadline to apply is January 1.** First consideration will be given to applications received by this date.  
**Rolling Application Deadline is March 15.**

### CONTACT INFORMATION

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**For More Information Visit**  
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