
GEORGIA INSTITUTE OF TECHNOLOGY

Kendeda Building for Innovative Sustainable Design

Atlanta, Georgia



Photo: Jonathan Hillier

The academic building targets Living Building Challenge goals and net positive energy and water while creating an ecologically performative heart of the campus.

SERVICES

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Plan
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The Kendeda Building for Innovative Sustainable Design is a partnership between Georgia Tech and The Kendeda Fund to build the most environmentally advanced education and research building in the Southeast. Designed by Lord Aeck Sargent in collaboration with The Miller Hull Partnership, the 37,000 sq. ft. building will include classrooms, labs, support areas, offices, maker space, and student breakout spaces. The project is targeting LEED Platinum certification and pursuing Living Building Challenge certification, the world's most stringent sustainability standard for the built environment.

As a key member of the design team, and to support the project's Water Petal and Net Positive Water goals, Biohabitats performed water balance modeling and developed and directed the strategy for water harvesting, sizing, and treatment and reuse approaches. Tactics included rainwater and greywater harvesting and reuse, composting toilets, and condensate and irrigation reuse. Greywater will be treated through constructed wetlands and a recharge system. Condensate and rainwater reuse systems will provide 100% of the water for green roof and site irrigation. Rainwater will be harvested from the photovoltaic panels and filtered to meet potable needs. The Kendeda Building will have the first rainwater-to-potable water approved system in Georgia for a non-single family residence.

The building is aptly located within the Eco-Commons, an integrated, ecologically-based landscape and open space system designed to unify the campus, enhance sustainability, and enrich its living, working, and learning environment. The project supports ecological performance goals established in the Eco-Commons master plan related to carbon sequestration, stormwater retention, and the enhancement of biodiversity and tree growth.