Environment Hall

Project Scope:
Built a new 72,000 gsf five-story building to serve as home for the Nicholas School of the Environment.

Program:
Home for the Nicholas School of the Environment, this five-story, glass-and-concrete building incorporates the highest sustainable features and technologies, and meets or exceeds the criteria for LEED platinum certification. The building features a green roof, solar hot water and photovoltaic systems, greywater and rainwater recycling for toilets and irrigation, natural lighting, chilled beam system for air conditioning, thermal corridor that provides natural insulation for offices and library.

Architecture & Engineering:
Energy saving features may include use of a 4-pipe chilled beam system for temperature control on levels 3, 4, and 5, passive-assisted building ventilation, high performance glazing with exterior shading systems, enhanced lighting controls with daylight harvesting and on-site photovoltaic power generation and domestic hot water heating systems. Water efficient fixtures and a rainwater reclaim system will reduce water usage. A measurement and verification plan will be implemented to provide continual feedback on water and energy consumption. An emphasis on energy optimization will reduce the atmospheric carbon impacts of building operation.

Sustainability:
This project incorporated design recommendation of the US Green Building Council (USGBC) and is on target for platinum certification from the Leadership in Energy and environmental Design (LEED).