PROJECT SUMMARY

Easton, PA  |  102,000 SF  |  Tracking LEED Platinum

Conceived as a vertically connected walk-up science community, the Rockwell Integrated Sciences Center uses significant existing topography to conceal the large program within the historic brick fabric of Anderson Courtyard. Seen as a contextually appropriate three-story building from campus, the building cascades down the hill using covered landscapes and sunken courtyards to maximize daylight and internal visual connections. The prime organization principle is a continuous four-story monumental stair vertically linking the academic programs and campus community spaces within.

With a clear mandate for cost-justifiable sustainability throughout project decisions, minimizing air change volumes and decoupling ventilation and condition air were driving principles. 80% of all fume hoods were filtered hoods calibrated with faculty for specific research needs. Coupled with air quality monitoring and reduced hood velocities, the health and safety of lab environments was significantly increased while reducing energy consumption by 55% over the ASHRAE 90.1 (2007) baseline.

SUSTAINABLE STRATEGIES

**REDUCTION IN ENERGY USE**

- 77 KBTU/sf

- 55% compared to the 2030 baseline

**REDUCTION IN WATER USE**

- 40% compared to the LEED baseline

- 94% of regularly occupied spaces have views to the exterior

- 55% building materials were manufactured with 500 miles of project site

- Ductless filtered fume hoods reduce air volume and energy consumption.

- High efficiency heat recovery system

- Enthalpy wheels efficiently capture heat being exhausted from the building

- High performance envelope

- Naturally ventilated offices

- Integrated automated sun shades mitigate heat gain and glare

- Bird safety glazing

- Custom frit reduces the bird collisions threat factor below 15 per the American Bird Conservancy

- Efficient mechanical equipment

- High efficiency chillers, heat recovery chiller and condensing boilers reduce energy usage