

Teachers College

New York, NY

Project Information

- Location: 525 W. 120th Street
- Project Area: Entire Campus
- Project Costs: >\$1M to date
- Completion Date: Ongoing

Design Engineering

- Chilled water system expansion to remote unconnected parts of campus.
- System upgrades and controls modifications to modernize equipment, increase occupant comfort, increase system overall efficiencies and provide user-friendly control and operation.
- Renovation and retrofit to systems suffering from poor indoor air quality (IAQ).
- Construction administration and bid analysis for all designed projects as required.
- Re-design of fuel distribution system in Central Plant to alleviate persistent operational concerns since time of original equipment installation.
- Design of code compliant cafeteria kitchen exhaust, make-up air, and heating/cooling systems
- Numerous studies to identify and remediate areas where concerns due to mold and moisture existed.
- Structural studies and design modifications to support mechanical work and facilities department needs.
- Review of outside architectural and engineering consultants designs for facility staff maintenance requirements and compliance to College's standards of design.
- Design and systems integration services for the Central Boiler Plant feedwater system to eliminate false low water cut-off alarms
- Redesign of the Central Boiler Plant antiquated controls to incorporate a fully automated digital supervisory control and data acquisition system (SCADA)



ICDS has performed multiple services for this college within Columbia University's Upper West Side campus for multiple projects incorporating the following efforts:

- Modernization of existing equipment for more efficient operation geared towards present day space uses and building codes
- Shifting de-centralized chilled water loads to the modern central plant's available capacity and extending plant capacity to new areas of the campus
- Providing our professional services for various engineering studies, construction administration, design review, and automation systems integration

Our engineering efforts have involved every building on the College's Historically significant campus, which extends well beyond an entire city block.



ICDS

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