Annual Report 2020-2021
John Noonan, VP for Facilities
Different times
New challenges
Same mission
Duke is the size of a small city

Undergraduate & Graduate Students 15,551
Faculty 3,962
Staff 42,479

= 61,992*

Stewardship of Duke's main campus includes:

**Buildings**
- 20M gross square feet
- 325 buildings

**Utilities**
- Chilled Water & Steam Plants
- Electrical Substations
- Water/Sewer/Storm
- 200+ miles of distribution

**Landscape & Fields**
- 1,300-acre campus
- 567 acres maintained
- Turf & fields
- Trees & plants

**Hardscape**
- 12 miles of roads
- 44 miles of sidewalks
- 100 ± acres of parking

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Duke FACILITIES MANAGEMENT

2020-2021 Annual Report
When many in the Duke community were away from Duke

And then returned to campus
And for those who never left
Duke Utilities

Ton-Hours of Chilled Water
151,662,115

Kilowatt-Hours of Electricity
439,401,467

Pounds of Steam
1,364,000,134

Gallons of Potable Water
369,853,704
Duke United

Hand Sanitizer Stations Built & Distributed: 244

Gallons of Hand Sanitizer Ordered: 2,052
Duke United

- Feet of Elastic Moved for Face Shields: 90,000
- Face Shields Transported: 70,000
- Classroom Caddies Installed: 205
New Electrostatic Sprayers
20

Hours Flushing Building Water Before Occupancy
350

Filters Upgraded to MERV 13
>1,000
Duke United

- Signs Posted, Removed & Reposted: 1,500
- Distancing Decals Distributed: 23,249
- Sandwich Boards Placed: 100
Duke United

Tents Ordered for Duke's Campus
41

Table & Chair Sets Distributed on Campus
90

Adirondack chairs Assembled & Distributed
337
There are always projects to be done
Completed Capital Projects

- **Chilled Water Plant #3**
  - July 2020

- **Wilkinson Engineering Building**
  - November 2020

- **Duke University Marine Lab Dock**
  - November 2020
Completed Renewal Projects

- **Gothic Door Restoration**
  August 2020

- **Duke Chapel Restoration**
  January 2021

- **Card Gym Roof Replacement**
  January 2021
Completed Infrastructure & Renovation Projects

- Chapel Drive Improvements
  December 2020

- Quantum Physics Lab at Chesterfield Building
  April 2021

- Page Landscape Renovation
  June 2021
Completed Utilities Projects

- LED Lighting Phase 2
  November 2020

- Substation 2 Switchboard Replacement
  November 2020

- Heating Hot Water Plant #2
  February 2021
In-Progress Utilities Projects

- **Thermal Storage Tank**
  - Expected April 2022

- **Utility Site 1**
  - Expected April 2022

- **East Campus Steam Plant Oil Boiler Installation**
  - Expected 2022
Energy Management & Climate Action

Solar Energy Partnership with Pine Gate Renewables
Announced August 2020
Facilities Safety

Facilities DART* Rate History
*Days Away, Restricted, or Transferred Rate

Duke DART Goal
< 4.0

Have Met Duke DART Goal
11 of last 12 years

Safety Training Compliance
96.2%

*January 1 - June 30

2020-2021 Annual Report
Facilities by the Numbers

- Campus Acres Maintained: 567
- Trees Managed: 16,791
- Flowers & Bulbs Planted: 16,574
Facilities by the Numbers

Cleanable Square Feet Maintained
4.9 Million

Sanitation Square Feet Serviced
19.9 Million

University Recycling Square Feet Serviced
9.25 Million
Facilities by the Numbers

Pounds of Recycled Material & Trash
17.3 Million

Buildings Cleaned
142

Bulbs Replaced with LED Lights
41,219
Facilities by the Numbers

- **Work Orders Completed**: 32,356
- **Building Keys Cut**: 14,000
- **Gothic Doors Restored**: 71
Facilities by the Numbers

- Purchase Orders Processed: 4,470
- Processed Purchase Order Expenses Total: $90 Million
- Customer Phone Calls: 4,085
Facilities by the Numbers

- Tickets Completed by Facilities IT: 1,081
- Software Updates & Patches Pushed Out Remotely: 380
- Department Hosted Zoom Meetings: 6,295
Facilities by the Numbers

E-newsletter Subscribers: 538
SMS Text Notifications Sent: 91
Staff Who Participated in Student Internships: 21
2020 Facilities Employees of the Year

Blake Aldridge, Steamfitter
Duke Utilities & Engineering (DUES)

Daryl Barnette, HVAC Planner
Technical Staff

Joshua Eaton, Assistant Director,
UEVS
Office Staff

Yancey Leonard, Utility Shop
Supervisor

Jeremy Herndon, Senior Grounds
Equipment Operator
Landscape Services

Tommy Huff, Electrician
Facility Operations

Cora Williams, Housekeeper
University Environmental Services (UEVS)
Retired in 2021
2020 Employee of the Year Awards

Team of the Year: General Maintenance Shop

Charlie Perez, Manager
Rickie Baker
LeRon Childs
Jeff Connolly
Heath Hall
Roosevelt Hall
La’Vell Jenkins
Lester Matte
Chip Meade
Roger Rose
Kelvin Sanders
Silvio Guardado
Don Watt
Retired in 2021
Bill Wheless
Years of Service: Facilities Employees 2020

recognized for 5, 10, 15, 20, 25, 30 or 35 years of service to Duke

Number of Employees
88

Combined Years of Employee Service
1,400

Average Years of Employee Service
16
Architectural & Building Awards

Duke Reclamation Pond
Excellence in Landscape Architecture for General Design Award

Society for College and University Planning (SCUP)
Architectural & Building Awards

Rubenstein Arts Center

Honorable Mention, in Architecture for a New Building

Society for College and University Planning (SCUP) & American Institute of Architects (AIA)
Architectural & Building Awards

Karsh Alumni & Visitor's Center

Design Award
American Institute of Architects Connecticut

Project of the Year
American Institute of Architects (AIA) Connecticut

American Architecture Award for Schools and Universities
American Architecture Awards

Citation from American School & University in the Higher Education Division
American School & University Magazine
Architectural & Building Awards

Student Health & Wellness Center

National Healthcare Design Award

American Institute of Architects (AIA)
Program Award

Tree Campus Higher Education

13th Annual Award

National Arbor Day Foundation
Creating tomorrow's Duke today, by building, enhancing and maintaining the campus environment.