

ENGINEERING RESEARCH CENTER @ Brown University

80,000
Square Feet

SHARED RESEARCH FACILITY
OPEN TO ENTIRE BROWN
COMMUNITY AND EXTERNAL
COLLABORATORS

8,000
Square Feet

NANOFABRICATION/BIOENGINEERING
INCLUDING:
CLEANROOM
ELECTRON MICROSCOPE
BIO CLEANROOM

IMAGE RESOLUTION OF
>.18 NANOMETERS



THE IMAGING FACILITY
INCLUDES 5 LABS, EACH
CONTAINING A SPECIALIZED
ELECTRON-BASED IMAGING TOOL
TO EXPLORE MATERIALS ON THE
ATOMIC SCALE.

450 SQUARE FEET
CLASS 10 Cleanroom

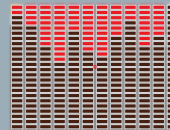
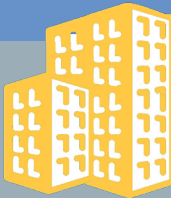
1400 SQUARE FEET
CLASS 100 Cleanroom

116 DEDICATED WORKSTATIONS FOR GRADUATE STUDENTS
AND POST DOCS



20 LAB MODULES **6** LAB CLUSTERS

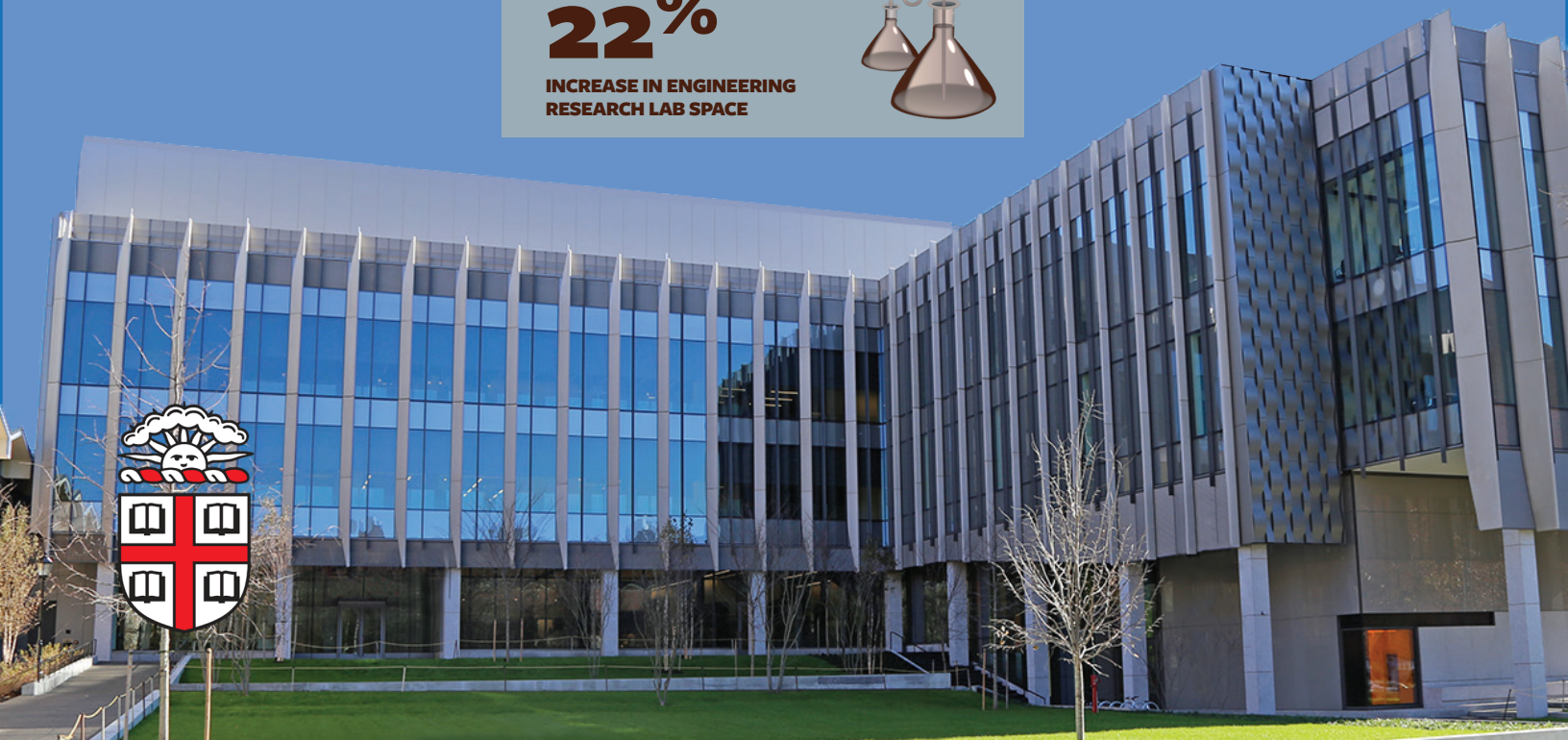
30% INCREASE IN ENGINEERING
SPACE ON CAMPUS
CONNECTS **3** ENGINEERING BUILDINGS



NEW STATE-OF-THE-ART MASS SPECTROMETER
THAT CAN DETECT AND QUANTIFY PFAS
(PER- AND POLYFLUOROALKYL SUBSTANCES)
AT VERY LOW CONCENTRATIONS
(PARTS PER TRILLIONS)

22%

INCREASE IN ENGINEERING
RESEARCH LAB SPACE



ENGINEERING RESEARCH CENTER @ Brown University

Integrating Community & Engineering



WINDOWS SURROUNDING THE UNDERGRADUATE TEACHING LAB ALLOW THE ENTIRE CAMPUS TO GET A GLIMPE INTO THE RESEARCH CLASSES TAUGHT EACH SEMESTER

9

THE HAZELTINE COMMONS IS MUCH MORE THAN A GATHERING PLACE FOR ENGINEERING STUDENTS. OVER PEOPLE HAVE ATTENDED EVENTS IN THE COMMONS IN THE FIRST 9 MONTHS OF OPENING. THE ENTIRE BROWN COMMUNITY HAS MADE USE OF THE SPACE.

2,500

10 conference/meeting SPACES for groups ranging from 3-150



Environmental Stewardship

GLASS REINFORCED CONCRETE VERTICAL FINS MANAGE SOLAR GAIN FROM WEST TO SOUTH

60

4



WATERFILLING STATIONS SUPPORT BROWN'S BEYOND THE BOTTLE INITIATIVE BANNING PLASTIC WATER BOTTLES ON CAMPUS

40%

OF ERC FAÇADE IS GLASS, CAPTURING NATURAL DAYLIGHT, LOWERING COSTS AND IMPROVING HEALTH AND WELL-BEING OF THE COMMUNITY

Public Art & Engineering

45

RECTANGULAR TILES OF

3

DIFFERENT TESSELLATION PATTERNS IN

SPENCER FINCH'S SIGNATURE PIECE LOCATED ON THE MAIN ENTRY WALL.



21

"SQUARED SQUARES" THE SMALLEST NUMBER OF SQUARES OF DIFFERENT SIZES THAT CAN EXIST IN A SINGLE SQUARE.



9

PIECES OF PUBLIC ART DISPLAYED THROUGHOUT THE BUILDING