INTRODUCTION





BERDO 2.0 BUILDING ENERGY REDUCTION AND DISCLOSURE

CENTER FOR SMART BUILDING TECHNOLOGY











ENGINEERING DEPARTMENT: SMART BUILDING TECHNOLOGY PROGRAM

A Preferred Producer of 'State-of-the-Art' **Building Automation Technicians**

1. Certified Building Automation Technician Associate

Building Automation Fundamentals Intro BAS Controllers/Software (LAB) 21 hrs 3 full days **BAS Control Devices & Applications** 30 hrs 3 hrs/wk BAS Networking 30 hrs 3 hrs/wk 111 hrs

2. Certified Building Automation Technician Practitioner

BAS Electrical 30 hrs 3 hrs/wk BAS HVAC/R and Controls 30 hrs 3 hrs/wk BAS Logic and Programming (LAB) 21 hrs 3 full days **BAS Systems Design and Installation** 30 hrs 3 hrs/wk 111 hrs

3. Certified Building Automation Technician (1+2+3)

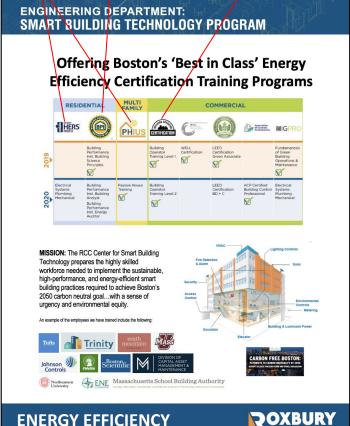
BAS Integration 75 hrs 8 full days 3 months **BAS Internship**





BUILDING AUTOMATION







Boston Mayor Martin J. Walsh has pledged to

make Boston a carbon-neutral city by 2050.

RCC's SBT Program supports this goal by

training the technicians who will operate the

at maximum efficiency to achieve this goal.

energy-efficient buildings, which must operate

In 2019, RCC had a vision of developing the energy efficiency and building automation workforce needed to achieve Boston's 2050 Carbon Neutral goal. In this quest RCC has been honored to have partnered with numerous industry leading experts.

New Program

At RCC we believe that Boston The Roston Globe is a world leader in establishing reported employers pathways to a new, more anticipate needing sustainable and equitable future. to fill 34,000 We believe the city is best building operations positioned to achieve success in and maintenance this realm, only if we can activate positions by 2022. the workforce needed, in the

neighborhoods that need the most help. To do so, we must work in a more strategic, equitable and focused manner. We can and will lead the country in these efforts. The future is bright. Please join us!

Why RCC?

Why SBT? See other side ⇒

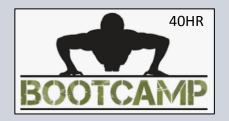
Boston 2050





KEY PROBLEM

How to make opportunities visible to new Emerging workforce?





Residential Energy Efficiency



Commercial Energy Efficiency

RESUME:

- BPI Building Science Principle Certificate of Completion
- GPRO Fundamentals Certification
- OSHA 10 Hour Certification
- Intro to Building Automation Certificate of Completion



OSHA Safety



Intro to
Building
Automation



KEY OBSTACLE

How to get more student interest?



Here are the top 10 community colleges in the nation according to Academic Influence's list of the top 50.

- 1. Anne Arundel Community College (Maryland)
- 2. Roxbury Community College (Massachusetts)
- 3. Eastern Maine Community College
- 4. Springfield Technical Community College (Massachusetts)
- 5. College of Marin (California)
- 6. Los Angeles City College
- 7. Lamar Institute of Technology (Texas)
- 8. Kennedy-King College (Illinois)
- 9. West Kentucky Community and Technical College
- 10. Lamar State College Port Arthur (Texas)













BENEFITS/CONSEQUENCES

30% of the population of Boston lives in these 3 EJ neighborhoods

Block Group 3, Census Tract 806.01, Suffolk County, Massachusetts

This 2020 blockgroup in **Boston** is an EJ population with the criteria: **Minority and income**

ROXBURY

EJ characteristics of the block group: Median household income: **\$9,185**: this is 10.7 % of the MA median. Total minority population: **87.3** %

Households with language isolation: 21.3

%

Block Group 3, Census Tract 1010.01, Suffolk County, Massachusetts

This 2020 blockgroup in **Boston** is an EJ population with the criteria: **Minority**, **income and English isolation**

MATTAPAN

EJ characteristics of the block group:
Median household income: \$44,837:
this is 52.2 % of the MA median.
Total minority population: 100.0 %
Households with language isolation:24.9
%

675,647 population Boston

54,905 ROXBURY 23,834 MATTAPAN 122,191 Dorchester 200,930 [30%]

Block Group 1, Census Tract 916, Suffolk County, Massachusetts

This 2020 blockgroup in **Boston** is an EJ population with the criteria: **Minority**

DORCHESTER

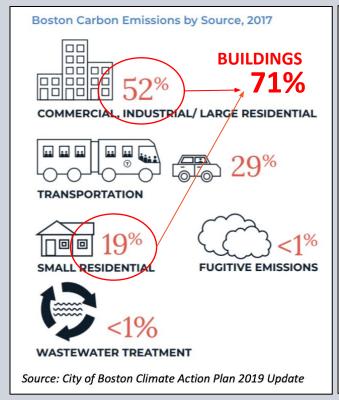
EJ characteristics of the block group:
Median household income: \$62,679:
this is 73.0 % of the MA median.
Total minority population: 78.9 %
Households with language isolation:16.9
%



FINAL STATEMENT

"Regarding Buildings and Construction, to achieve Boston's Carbon & Equity goals, a critical obstacle to collaboratively overcome within the next 12 months is:

Cultivating more interest from the emerging workforce in EJ communities to engage in opportunities in the future built environment.



The built environment we want for the future

