Building Research Capacity at Minority Institutions: Figures of Research Expenditure and Facility Space by Field

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Descriptive Statistics
Figure 1: HBCUs by Carnegie Classification Over Time
Figure 2: HSIs by Carnegie Classification Over Time

Texas A & M-College Station
UC Riverside
UC Santa Barbara
UC Santa Cruz
University of New Mexico-Main Campus
CUNY Graduate School and Center
University of Houston
Florida International
UT Arlington
UT El Paso
New Mexico State-Main Campus
San Diego State
University of Puerto Rico-Rio Piedras
Nova Southeastern
Azusa Pacific
Texas A & M-Kingsville
Barry
Texas Woman’s
University of La Verne
Inter American of Puerto Rico-Metro
Union Institute &
Albizu-San Juan
UT San Antonio
Texas State
Texas A & M- Corpus Christi
The of Texas Rio Grande Valley
National Louis
Pontifical Catholic of Puerto Rico-Ponce
Universidad Ana G. Mendez- Gurabo Campus
CUNY City College
Keiser-Fl Lauderdale
Our Lady of the Lake
University of Massachusetts Global
University of the Incarnate Word
California State-East Bay
California State-San Bernardino
Albizu-Miami
Dominican-New York
Kean
Pontifical Catholic of Puerto Rico-Arecibo
St. Thomas

R3
R2
R1

2005 2010 2015 2018 2021

Total number of institutions: 41
Figure 3: R&D Spending vs. Research Doctorates in 2019-2020

Total Institutions: 806; exclude outlier Johns Hopkins (over $3 Billion in R&D). Dashed lines represent Carnegie 2025 cutoff.
Figure 4: R&D Spending vs. Research Doctorates for HBCUs in 2019-2020

Total Institutions: 53; exclude outlier Texas A&M-College Station (over $1 Billion in R&D). Dashed lines represent Carnegie 2025 cutoff.
Figure 5: R&D Spending vs. Research Doctorates for HSIs in 2019-2020

Total Institutions: 77; exclude outlier Texas A&M-College Station (over $1 Billion in R&D). Dashed lines represent Carnegie 2025 cutoff.
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Excludes special focus institutions. Winsorized at 99th percentile of sample.
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Excludes special focus institutions. Winsorized at 90th percentile of sample.
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Excludes special focus institutions. Winsorized at 99th percentile of sample.
Figure 10: Kernel Density of CS and Math R&D Expenditure in 2021

Excludes special focus institutions. Winsorized at 90th percentile of sample.
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Excludes special focus institutions. Winsorized at 99th percentile of sample.
R&D Expenditures in 2021
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Numbers depict number of institutions. Excludes special focus institutions.
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Numbers depict number of institutions. Excludes special focus institutions.
Figure 14: Federal vs. Nonfederal R&D Expenditure for Other Institutions in 2021

Numbers depict number of institutions. Excludes special focus institutions.
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Numbers depict number of institutions. Excludes special focus institutions.
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Numbers depict number of institutions. Excludes special focus institutions.
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Numbers depict number of institutions. Excludes special focus institutions.
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- Northwest Indian College
- Dine College
- Salish Kootenai College
- Oglala Lakota College
- United Tribes Technical College

R&D Spending by Field for 2021 (Thousands of $)

No special focus institutions
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Excludes special focus institutions. Winsorized at 99th percentile of sample.
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Excludes special focus institutions. Winsorized at 90th percentile of sample.
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Excludes special focus institutions. Winsorized at 99th percentile of sample.
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Excludes special focus institutions. Winsorized at 99th percentile of sample.
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No special focus institutions, excludes medical school and clinical trial space
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Total Institutions: 210; Pearson Corr: 0.77; Spearman Corr: 0.74; Dropped Outliers: 0
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Total Institutions: 350; Pearson Corr: 0.85; Spearman Corr: 0.82; Dropped Outliers: 0
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(2012 to 2021)
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Excludes special focus institutions
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Excludes special focus institutions
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Exclusive of special focus institutes.
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Excludes special focus institutions
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Excludes special focus institutions
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Excludes special focus institutions
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Excludes special focus institutions
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