Attachment 10: BUILD Logic Models

BUILD Student Logic Model



Independent Variables

Gender
Race/Ethnicity
Disability Status
Institutional
Factors
SES
Major
Cumulative GPA
High School
GPA
HS
Characteristics
Standardized
Test Scores

Activities

Financial

Support

Outputs & Short-Medium-Term
Outcomes

Training and Engagement in Research

Enhanced
Academic/Scientific Self-Efficacy
& Researcher/Science Identity

Social Integration/Perceived Fit with Univ. Setting & Participation with Academic & Professional Student Organizations

Satisfaction with Faculty Mentorship

Pursuit, Retention & Persistence of/in Biomedical Science Degree/Discipline

Scientific Conference Presentation and (Co-) Authorship of Peer-Reviewed

Intent to Pursue Biomedical Research Career

Medium-Long-Term Outcomes

Completion of Undergraduate Degree in Biomedical Science

Evidence of Biomedical Career Preparedness

Application &
Acceptance to Attend
and Entrance to
Graduate Program in
Biomedical Science
Discipline

Submitted
Applications &
Receipt of Awards,
Including Research
Fellowships &
Scholarships

DPC Hallmarks of Success

Novel Curricula (Enrollment)

Diversity Training

Academic Advising & Support

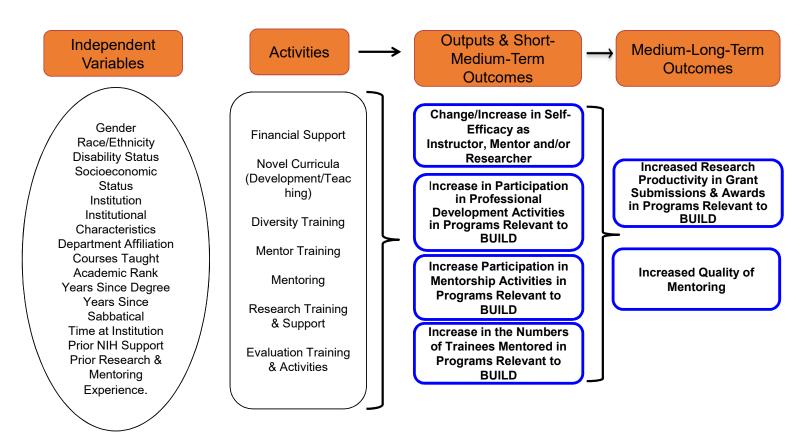
Mentoring

Research Training & Support

Career Advancement & Development

BUILD Faculty Logic Model





BUILD Institutional Logic Model



Independent Variables

Institutional

Characteristics:

Public/Private

Research

Intensiveness

Admission Rate

Selectivity Level

Average SAT

Average ACT

MSI Designation

Faculty Diversity

Student Diversity

Total Student Body

% Pell Grants

% Transfer Students

% Graduate Students

Building & Development of

Recruitment & Retention Strategies & BUILD Financial Support

Facilities

Activities

Collaboration & Communication (Inter- & Intra-Institutional)

Mentor Training & Mentoring & Diversity Training

Research Training & Support

Development/Teaching & Enrollment in Novel Curricula

> Academic Advising & Support & Career Advancement & Development

Structures & Procedures for **Evaluation & Administration** of Programs

Increase Enrollment and Participation of Underrepresented Students in Biomedical Research Fields

Outputs & Short-

Medium-Term

Outcomes

Increased Participation in Mentor Training & Mentoring Activities in **Programs Relevant to** BUILD (Faculty & Students)

Improved Undergraduate **Retention Rates of** Students in Programs Relevant to BUILD

Increase in Number of Underrepresented Students Enrolled & Retained in BUILD **Biomedical Research Programs**

Medium-Long-Term **Outcomes**

Increase, Enhance, and/or **Develop Inter-Institutional Collaborations to Achieve BUILD Outcomes Related to** Research, Mentorship, and **Faculty Development**

Increase in Number of Research Training Opportunities (Faculty & Students) in Programs Relevant to BUILD

Increased Institutional **Commitment to Sustaining** Activities of BUILD, Changing the Academic **Culture, Culture of Faculty** Promotion, Tenure, Research **Development, Stronger Emphasis on Student** Mentoring and Advising to Increase Institutional **Outcomes, and Curriculum** Improvements

Institutional Commitment to **BUILD Sustainability Evidenced by Site** Maintenance of Key Elements of Program **Interventions after Grant** Period

Number & Nature of Partnerships Geographic Location Average NIH RPG **Funding** Average BUILD

Funding