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11 **Effectiveness of a network Open House model to recruit trainees to post-baccalaureate STEM**
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Abstract

Post-baccalaureate (post-bac) programs can have a positive impact on science training and STEM career opportunities for junior trainees. A goal for many of these sponsored programs is to increase research exposure for underrepresented minorities, a group that can include African American, Hispanic, Native American, and first-generation college students, among others. Recruiting underrepresented minorities to post-bac programs can be challenging, for reasons that include a lack of available research opportunities, time to pursue these experiences, and awareness of available programs. To this end, an Open House event was created to inform and excite potential students for future post-bac programs. Students were recruited from partnering Minority Serving Institutions (MSIs) to attend a two-day event at a primarily undergraduate institution (PUI) and a research- intensive R1 institution. The students visited both campuses, were informed about post-bac programs and potential research opportunities, and met with faculty, current graduate students, and a former post-bac scholar. Transportation, lodging, and meals were provided. Visiting students completed voluntary pre- and post-surveys. Results indicated that attendees, the majority of whom were underrepresented minorities in STEM, left the event with an increased understanding about post-bac programs and their benefits to a career in STEM and that their attendance at the event made it more likely they would apply to available post-bac programs. Thus, this work demonstrates that in-person events involving integrative partnerships across multiple universities are effective strategies for increasing awareness of opportunities available to students post-graduation and for recruiting underrepresented groups in STEM to post-bac programs.

Introduction

Starting a career in science depends on extensive hands-on experience. For many, laboratory research experience begins in their high school or undergraduate education, but for others, obligations outside the classroom prevent them from experiencing bench research firsthand. This challenge is often observed with students who identify as underrepresented minorities in science or have come through a community college system (1, 2), and it can limit individuals belonging to these groups from obtaining lab research experience necessary for graduate programs or employment in STEM careers. For example, graduate schools look for meaningful research experience in their candidates. In many programs, matriculating graduate students are years past their undergraduate education (3), giving them time to obtain relevant research experience that they might not have had the opportunity to pursue while working towards their bachelor's degree. Developing opportunities for students to gain experience after their undergraduate training is central to recruiting a diverse, balanced population to the STEM workforce, but many of those who would benefit most from these opportunities may be unaware of their existence or benefits.

Post-baccalaureate programs are one to two-year funded, research-intensive training experiences designed to prepare trainees for graduate school and STEM careers. Some of these programs have been active for several years. For example, the National Institutes of Health (NIH) Postbaccalaureate Research Education Program (PREP) program is in its third decade and supports post-bac trainees at a variety of research institutions across the country (4). This program has evolved new strategies to promote readiness for STEM graduate school (5, 6) and is incredibly successful. Currently, 65-97% of PREP scholars enter graduate school programs, and Ph.D. completion rates are > 65% above the rates reported for underrepresented groups in the life sciences (6-8). The American Cancer Society (ACS) and National Science Foundation (NSF) have recently developed post-bac programs with similar structural models (9, 10). All these programs recognize the need to support research experiences for underrepresented minorities in science. A funded research experience outside of schooling promises more opportunity to recruit a breadth of students from a wide demographic, but a challenge faced by post-bac programs is how to reach trainees who may not be familiar with the benefits of these programs or who are disconnected from pathways that lead to a successful STEM career.

An Open House event invites candidate trainees on site to introduce a program and present opportunities available to them. These events are flexible by design and can be impactful well past the traditional K-12 use of such events. Targeted, personal Open House-like events can be helpful in recruiting individuals from specific demographics, like those who identify as female and African Americans (11). Students considering various undergraduate programs also have identified Open House events as an effective recruiting tool (12). Universities note that Open House events are a chance to present a positive image to visitors (13). Open Houses are a chance for real human connection, which can showcase the advantages of an educational program to groups of people missed through other advertising campaigns.

In this study, an Open House event was developed to introduce the benefits of post-bac programs, with an
emphasis on reaching students from groups underrepresented in the biological sciences (14) with little previous
research experience. Faculty and students from research-intensive R1s, primarily undergraduate institutions
(PUIs), and minority serving institutions (MSIs) that form collaborative research networks are effective in
undergraduate biology training (15), and personalized referrals are among the most effective strategies for
recruiting students from underrepresented minority groups to STEM graduate school (11). In consideration of
these factors, an event was crafted that leveraged the strengths of faculty partnerships across a network of MSI,
PUI, and R1 institutions. The effort created an experience that reached a cohort of students from
underrepresented minority groups in science and presented post-bac programs as a viable steppingstone for a
STEM career. This strategy can be modified to present the strengths of any university, training program, or
geographical area. Thus, STEM training programs may consider hosting similar events to increase the diversity
of their applicant cohort.

Materials and Methods
Open House Event and Survey Format
Recruitment for the Open House was performed through advertising and word of mouth. The advertising flyer
was created in Canva (Canva, Sydney, Australia; www.canva.com), which contained a QR code linked to a
Google Form (Google; Mountain View, CA; www.google.com) for registration. Students were selected on a first
come, first serve basis. Partnering MSIs were given first access to registration, followed by students at the
hosting institutions. In total, 17 students were recruited to the event, with 15 attending on both days. Students
and faculty from their home institutions were responsible for arranging travel to Indianapolis, IN. Hotels were
reserved through Butler University, the primary hosting institution.

Day 1. Students and faculty arrived at Butler University, a PUI in Indianapolis, IN. Prior to scheduled events (**Fig
S1**), students completed an anonymous pre-survey (**Supplemental Information 1**), approved by a Butler
University IRB (Approval date: Sept. 18, 2023) and administered by Qualtrics (Qualtrics; Provo, UT), taking
approximately 10-15 minutes to complete. This survey requested information regarding the participant's
demographics, science experiences, and familiarity with and interest in post-bac programs. A total of 17 students
completed the pre-survey. Students then learned of the opportunities for post-bacs and those with science
graduate degrees (e.g., M.S., Ph.D.), research opportunities at local PUIs, and resources available at Butler
University. A tour of the Butler University campus was made available for those interested. Visiting students and
faculty then were taken to dinner with faculty interested in hosting post-bacs and with graduate students from
the Indiana University School of Medicine, an R1 Research Institution. Visiting faculty and students stayed at a
local hotel sponsored by the program.

Day 2. Students and faculty visited Indiana University School of Medicine; Indianapolis, IN (**Fig S1**). They were
given an overview of an established post-bac program (https://iprep.iupui.edu/index.html) and research at
Indiana University and interacted with a graduate student panel assembled by the local chapter of the Society
for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS). Tours of the Centers
of Electron Microscopy and Proteome Analysis facilities were given. A sponsored lunch was provided with Indiana
University School of Medicine faculty members and graduate students. Visiting students were prompted to
complete a Qualtrics exit survey consisting of the similar questions regarding post-bac programs (**Supplemental
Information 2**). A total of 13 students completed this exit survey.

Data Analysis
Anonymized pre- and post-event survey data were aggregated separately and analyzed for statistical
significance in GraphPad Prism version 10.1.1 for MacOS (GraphPad Software, Boston, Massachusetts USA).
Figure 1A and B data were analyzed using a Mann Whitney U test to compare pre- and post-survey Likert score
means converted to a 1-5 scale. Figure 1C data were analyzed using a One Sample Sign Test (One sample t
and Wilcoxon test in Prism) with 3.0 "neither" at the middle of the 1-5 Likert scale set as the theoretical mean
value. Figures were also made using Prism and Adobe® Illustrator® (Adobe, San Jose, CA). Qualtrics data for
all survey questions are included in the **Supplemental Information 1 and 2**.

Results
The goal this project was to develop an event that could recruit applicants from a range of backgrounds to post
baccalaureate programs. To this end, an Open House was created to advertise a potential post-bac program to

students in Indiana and the Chicago area. Partnerships were first established between three Indianapolis area
PUIs that are proximal to a centrally located R1 institution. Next, additional partnerships were formed with four
MSIs in the Northern Indiana/Chicago area. Faculty at these MSIs interact regularly with many students from
underrepresented groups, as defined by both the NIH (16) and NSF (17). Each MSI had a faculty contact who
facilitated event advertising and chaperoned students to the Open House. A full schedule of talks and social
events were planned (**Fig S1**) and held at Butler University and Indiana University School of Medicine. Students
learned about scientific research and professional opportunities for those entering post-bac programs and STEM
careers. Discussion forums and meals were included, which allowed visiting students to discuss post-bac
programs and graduate school with R1 graduate students from SACNAS and with faculty from PUI and R1
institutions.

Voluntary, anonymous pre- and post-surveys were administered at the beginning and ending of the Open House.
The pre-survey solicited demographic information of the students attending the event (**Supplementary**
Information 1). Information was collected regarding age, year in school, sexuality, gender, disability, military
service, education, science exposure, career goals, and the attendees' knowledge of the concept of and
opportunities available in post-bac programs. All results are provided for those who responded (**Supplementary**
Information 1). Of note, 76.2% of total pre-survey respondents identified as an underrepresented racial/ethnic
minority, including Black/African American (33.3%), Hispanic/Latinx/a/o/e (38.1%), or Indigenous/American
Indian or Alaskan Native (4.8%). Additionally, 17.6% of respondents indicated they had a disability according to
the NIH/NSF definition (16-19). Only 18.8% reported having a family member in the household with a 4-year
degree or higher. While most respondents (94.1%) reported pursuit of a bachelor's degree in science, less than
half (47.1%) could identify a science role model. A similar percentage (57.1%) reported that they did not pursue
independent research in their undergraduate education, either because it was not available or because they
chose not to participate. The responses indicated that limited time due to work or personal obligations (32.1%)
and access to knowledge regarding research activities (25.0%) were both significant factors in deciding whether
to pursue undergraduate research. In sum, the students recruited to this Open House were members of groups
typically underrepresented in science with limited exposure to science research.

Analysis of pre- and post-survey data indicated that the attending students learned about and had a positive
impression of the post-bac program. Responses showed that students gained a statistically significantly
improvement in their understanding of post-bac training programs and what they entail after attending the Open
House (**Fig 1A;** U (N_{Pre}=15, N_{Post}=13) = 26.5, p = 0.0003). Students also expressed a strong interest in pursuing
a post-bac opportunity (**Fig 1B**). Although the pre- to post-survey gains were not statistically significant for this
question [(U (N_{Pre}=15, N_{Post}=13) = 71, p = 0.192], this is likely due to both small sample sizes and the high number
of students "agreeing" with the statement despite not being very familiar with post-bac programs in the pre-
survey. Nevertheless, more students "strongly agreed" they were interested in pursuing a post-bac program in
the post-survey (Mean$_{Pre}$ = 4.0; Mean$_{Post}$ = 5.0). The responses for the Open House event were universally
positive and indicated a statistically significant increase in the likelihood attendees would apply for a post-bac
program (**Fig 1C**) [one sample, $t(df)$ = 10.65 (11); p < 0.0001]. The most positive experiences came from hearing
about the benefits of a post-bac program (75%), an overview of a model post-bac program (75%), and the
graduate student panel (83%). Anecdotally, student survey responders commented that "they definitely sold me
on (the location)…and all the programs offered," that "the event was really informative," and that the event "was
really fun and insightful. I found out more about post bac programs and the benefits." While some students
commented in the pre-survey that they were worried about the "location away from home", "being at a
predominantly white institution", and being unsure whether completing the post-bac program "would lead to
something", none of these concerns appeared in post-survey responses. Thus, the Open House may have been
successful in addressing students' concerns. In fact, one respondent in the post-survey stated, "That being away
from home and finding a new place to live and having to start out my own with this change is daunting but I'm
sure I'm capable of doing it." In sum, the network-based Open House event delivered a positive experience and
was successful in informing students about the benefits of a post-bac program to pursuing future careers in
STEM.

Discussion
Post-baccalaureate recruitment of underrepresented minorities can be challenging due to a lack of science
exposure and personalized interactions. To improve outreach to underserved populations in science, an open
house event was established to advertise post-bac programs to students from MSIs and surrounding universities.

Students visited the campuses of a PUI and an R1 institution, heard about post-bac programs and graduate
school, and had a chance to socialize with faculty and students. Pre- and post-surveys performed indicated that
many of the students who visited represented underserved minorities in science and that the Open House both
informed and left a positive impact on their impressions of post-bac programs. Hence, direct personalized events
leveraging the strengths of multiple institutions is a viable strategy to encourage trainees to pursue post-bac
opportunities.
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MSI partnership to enhance science outreach and development is a well-established strategy. Personal referrals
are an effective means to recruit students to graduate programs (11). Furthermore, MSI partnerships have aided
in recruitment of underrepresented minorities in sciences into a physical sciences graduate program (20), and
encouraged participation in STEM research with the National Oceanic and Atmospheric Administration (NOAA)
(21). National programs like the Leadership Alliance, comprised of 32 institutions ranging from Ivy League
schools and R1s to MSIs, have been collaboratively mentoring underrepresented minority students from
undergraduate through graduate training for 30 years (22). Similarly, this Open House event relied heavily on
MSI faculty to recruit students through word of mouth and flyer distribution. MSI faculty members also
accompanied their students to the two-day event. Personalized mentorship is known to enhance a student's
STEM experience and decision to enter STEM careers (23). Thus, personalized experiences, like invitations
from faculty at their own institutions to an Open House event, are likely to increase the likelihood that students
will apply to post-bac programs.
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Improvements will further refine the effectiveness of the Open House. First, while MSI student participants
expressed many positive sentiments regarding their experience at the event, informal conversations with student
and faculty attendees indicated that they would like additional time to explore the local area, including housing
options and neighborhood information, as well as a more comprehensive overview of research departments and
areas, while also ensuring that research talks are as accessible as possible to a wide range of students. Second,
scheduling the Open House at a time that was mutually convenient for all institutions, each with their own unique
academic calendars, while also avoiding local hotel event conflicts, was challenging. Continued communication
and advance planning, as well as pairing the in-person event with virtual "office hours" and other campus visits
by post-bac program faculty and student representatives should minimize these challenges in the future. Third,
although advertising with the partnered MSIs was effective for recruiting Open House attendees, less effort was
placed on recruiting students in the area. Local students represent an additional, potentially high yield population
for a post-bac program, as they would not need extensive travel to attend the Open House, and some would
likely identify as an underserved minority in science. Thus, recruiting local students to post-bac programs may
be extremely fruitful, as they may be comfortable committing to a program in which they know the area,
universities, and faculty members involved. More effort should be placed to advertise such Open House events
to all students, near and far. Fourth, many students who attended the Open House event had already made
career choices. Many students were interested in clinical professions, with less than half citing research as their
career goal (**Supplemental Information 1**). Student mindset can change, but it may be advantageous to target
college students who are undecided or leaning toward a non-clinical STEM career, as these students will be the
strongest candidates for post-bac programs. Continued personalized invitations to such students from MSI, PUI,
and R1 faculty, along with providing additional STEM-career focused information to candidates, will likely be
most effective in achieving this goal (11). As designed, the Open House format permits flexibility for hosts to
reconfigure and emphasize strengths of their geographical area, research programs, and partners to recruit their
desired post-bac cohort.
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Conclusion
Overall, this work provides evidence that having in-person Open House events is an effective way to inform
students, and particularly those from groups underrepresented in STEM, about post-bac programs. Post-bac
programs continue to gain traction because of their strengths in preparing students for graduate school. These
training opportunities are promising avenues to recruit talent from all walks of life into STEM careers. Virtual
"office" hours and flyer advertising on university boards or email are affordable and can be effective for the
student knowledgeable about the next steps in a STEM career. However, to recruit students unaware of the
possibilities in a science career, a more active recruitment process, such as an Open House event, may aid in
identifying talent outside of the normal cohort. This Open House model, which capitalized on the synergy of a
network of partner institutions (MSIs, PUIs, and RIs), is one method for successfully identifying post-bac

candidates from underrepresented groups and sharing with them the benefits of participating in a post-bac program as an integral step in their STEM career progression.

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Figure Legends

Figure 1. **Effectiveness of an Open House event in educating and promoting post-baccalaureate programs. (A, B)** Pre- and post-event surveys of (A) student familiarity with post-baccalaureate training programs and (B) student interest in participating in a post-baccalaureate training program (N = 15 pre; N = 13 post). **(C)** Post-survey responses regarding the impact of the Open House event on the likelihood of their future application to a post-baccalaureate training program (N = 12). See *Results* text for statistical analysis.

Figure S1. Open House Agenda

Supplemental Information 1. Open House Pre-Survey Results

Supplemental Information 2. Open House Post-Survey Results.

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A Familiarity with the post-baccalaureate training program?

B Interest in participating in a post-baccalaureate training program?

C Open House make it more likely that I apply to post-baccalaureate training program

Figure S1. Post-Baccalaureate Open House Agenda

Day 1: Primary Undergraduate Institution (PUI)

Time	Activity
12:00p – 1:00p	Lunch, pre-survey taking
1:00p – 1:10p	Welcome and introductions, PUI
1:10p – 1:25p	What to do with a science degree: A brief overview of graduate school and careers in STEM
1:25p – 1:35p	Undergraduate vs. Graduate School and how Post-bac programs can bridge the gap
1:35p – 1:55p	Life as a post-bac, previous post-bac turned graduate student
1:55p – 2:05p	Break
2:05p – 2:20p	Overview of a post-bac program: goals, design, student timeline
2:20p – 2:35p	Example 1: PUI faculty research
2:35p – 2:50p	Example 2: PUI faculty research
2:50p – 3:00p	Break
3:00p – 3:30p	Butler Campus tour - Labs/science area
3:30p – 4:00p	Diversity resources
4:00p – 6:00p	Break, check in to hotel
6:00p – 8:00p	Dinner and Networking Reception *All PUI, MSI, RI, faculty & students invited

Day 2: R1 Research Institution (R1)

Time	Activity
8:30a – 9:00a	Coffee and baked goods
9:00a – 9:10a	Welcome and introductions, IUSM
9:10a – 9:40a	Getting from here to there: Benefits to a post-bac program and life as a post-bac in Indianapolis (faculty post-bac expert)
9:40a – 10:10a	Graduate Student Panel, Society for the Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS): Trainee life in Indianapolis and benefits to post-bac program
10:10a – 10:25a	Break
10:25a – 10:40a	Example 1: R1 faculty research
10:40a – 10:55a	Example 2: R1 faculty research
10:55a – 11:05a	Break
11:05a – 12:00p	R1 Campus tour – Centers for Electron Microscopy and Proteomics
12:00p – 1:00p	Thank you, Lunch, survey