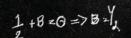


A 10-year Retrospective on the

Posse STEM Program

FEBRUARY 2018



Diversity+STEM=X

Solving the Equation for Higher Education and the Workforce

A 10-year Retrospective on the

Posse STEM Program

FEBRUARY 2018

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Posse Concept, Mission + Goals



Posse started in 1989 because of one student who said.

"I never would've dropped out of college if I'd had my posse with me."

The Posse Foundation identifies public high school students with extraordinary academic and leadership potential who may be overlooked by traditional college selection processes. The Foundation extends to these students the opportunity to pursue personal and academic excellence by placing them in supportive, multicultural teams—Posses—of 10 students. The Foundation's partner colleges and universities award Posse Scholars full-tuition leadership scholarships.

Mission

The Posse model works for both students and college campuses and is rooted in the belief that a small, diverse group of talented students—a Posse—carefully selected and trained, can serve as a catalyst for increased individual and community development. As the United States becomes an increasingly multicultural society, Posse believes that the leaders of this new century should reflect the country's rich demographic mix and that the key to a promising future for our nation rests on the ability of strong leaders from diverse backgrounds to develop consensus solutions to complex social problems. One of the primary aims of the Posse program is to train the leaders of tomorrow.

Gnals

- 1. To expand the pool from which top colleges and universities can recruit outstanding young leaders from diverse backgrounds.
- 2. To help these institutions build more interactive campus environments so that they can become more welcoming institutions for people from all backgrounds.
- **3.** To ensure that Posse Scholars persist in their academic studies and graduate so they can take on leadership positions in the workforce.

College + University Partners

AGNES SCOTT COLLEGE

BABSON COLLEGE

BARD COLLEGE

BOSTON UNIVERSITY

BRANDEIS UNIVERSITY

BRYN MAWR COLLEGE

BUCKNELL UNIVERSITY

CARLETON COLLEGE

CASE WESTERN RESERVE UNIVERSITY

CENTRE COLLEGE

COLBY COLLEGE

THE COLLEGE OF WOOSTER

CONNECTICUT COLLEGE

CORNELL UNIVERSITY

DARTMOUTH COLLEGE

DAVIDSON COLLEGE

DENISON UNIVERSITY DEPAUW UNIVERSITY

DICKINSON COLLEGE

FRANKLIN & MARSHALL COLLEGE

THE GEORGE WASHINGTON UNIVERSITY

GRINNELL COLLEGE

HAMILTON COLLEGE

HOBART AND WILLIAM SMITH COLLEGES

ILLINOIS WESLEYAN UNIVERSITY

KALAMAZOO COLLEGE

LAFAYETTE COLLEGE

LEHIGH UNIVERSITY

LAWRENCE UNIVERSITY

MIDDLEBURY COLLEGE

MOUNT HOLYOKE COLLEGE

NORTHWESTERN UNIVERSITY

OBERLIN COLLEGE

PEPPERDINE UNIVERSITY

POMONA COLLEGE

SEWANEE: THE UNIVERSITY OF THE SOUTH

SMITH COLLEGE

ST. OLAF COLLEGE

SYRACUSE UNIVERSITY

TEXAS A&M UNIVERSITY

TRINITY COLLEGE

TULANE UNIVERSITY

UNION COLLEGE

UNIVERSITY OF CALIFORNIA, BERKELEY

UNIVERSITY OF MICHIGAN

UNIVERSITY OF NOTRE DAME

UNIVERSITY OF PUGET SOUND

UNIVERSITY OF ROCHESTER

THE UNIVERSITY OF TEXAS AT AUSTIN

UNIVERSITY OF VIRGINIA

UNIVERSITY OF WISCONSIN-MADISON

VANDERBILT UNIVERSITY

VASSAR COLLEGE

WELLESLEY COLLEGE

WESLEYAN UNIVERSITY

WHEATON COLLEGE

Five Program Components

The Posse Program achieves its goals through 5 program components.

1. Recruitment

From September to December each year, Posse conducts the Dynamic Assessment Process (DAP). a unique evaluation method designed to identify young leaders who might be missed by traditional admissions criteria, but who can excel at selective colleges and universities. Using nontraditional forums to evaluate potential, DAP offers students an opportunity to demonstrate their intrinsic leadership abilities, their skill at working in a team setting, and their motivation and desire to succeed. DAP has proven to be an extremely effective tool for identifying outstanding young leaders. In a three-part process, including large group and individual interviews, Posse staff and partner college and university administrators ultimately select a diverse group of 10 students for each college or university, thus forming a Posse.

2. Pre-Collegiate Training

From January to August of their senior year in high school, Posse Scholars meet weekly with staff trainers and their Posse peers for two-hour workshops. The Pre-Collegiate Training Program consists of workshops that address four areas: 1) team building and group support, 2) cross-cultural communication, 3) leadership and becoming an active agent of change on campus, and 4) academic excellence. The goal of the training is to prepare Scholars for leadership roles on campus and for the high-level academic expectations of their colleges.

3. Campus Program

The Campus Program works to ensure the retention of Posse Scholars and to increase the impact of Posse on campus. Posse staff members visit each college and university four times a year for meetings with Posse Scholars, campus liaisons and mentors. During a Posse's first two years on campus, Scholars meet with their mentor each week as a group and every other week individually. In addition, Posse facilitates an annual weekend-long PossePlus Retreat attended by members of the larger student body, faculty and administration with the goal of discussing an important campus issue identified by Posse Scholars.

4. Career Program

The Career Program supports Posse Scholars as they transition from being leaders on campus to becoming leaders in the workforce. Posse plays an integral role in the professional development of these young people by providing them with the tools and opportunities necessary to secure highly competitive, career-enhancing internships and jobs. One of the ways Posse achieves this is by partnering with exceptional companies and organizations, both nationally and abroad. The Career Program has three core components: 1) Internship Program, 2) Career Services and 3) The Alumni Network.

5. Posse Access

Posse Access is an online database designed to give Posse partner colleges and universities exclusive access to unselected student nominees to consider for regular admission. Through Posse Access, the hundreds of finalists nationwide who are not selected can opt to have their application profiles made available to each of Posse's partner institutions. By identifying candidates through the Posse Access database, partner schools benefit from Posse's holistic approach to evaluating student potential and a see a much greater pool of highly qualified students.

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Who are Posse Scholars?

This year more than 17,000 students were nominated for 750 scholarship slots. Posse Scholars represent the most dynamic talent this country has to offer.

We identify Posse Scholars through our Dynamic Assessment Process (DAP)—a unique, nontraditional and highly competitive three-stage interview involving guidance counselors, community-based organizations and university admissions representatives.

DAP evaluates the whole student through the use of indicators such as leadership, communication skills, life experiences, problem-solving ability and perseverance. It identifies students who have proven their ability to succeed—whether or not they have high test scores. It identifies students who are natural leaders and want to make an impact in their communities.

Ask anyone to describe a Posse Scholar, and you get words such as: motivated, creative, intelligent, dynamic, highly involved, persistent, positive, enthusiastic, optimistic, funny, magnetic and determined.

Katharine Wright, a Posse mentor and Middlebury College faculty member, talked about the first time she met Posse Scholars: "I noticed them the first week but by the third week I was just floored. These extraordinary students, just changing the dynamic of the whole class. I had no idea they were Posse students."

Posse Scholars are extraordinary. Posse Scholars intern on Capitol Hill, win Fulbrights and tutor their peers. Posse Scholars are study session leaders and student government presidents. They facilitate conversations on race and write for their college newspapers.

When Posse Scholars graduate, they take on leadership positions in the workforce. Posse alumni are scientists, doctors and researchers. They are CEOs, educators, artists, and political organizers. In 2020, the workforce will include 6,000 Posse graduates working in government, education, the arts and corporate America.

The most recent class of Scholars (selected in fall 2017) had an average high school GPA of 3.8. Of this group, 56.3 percent are first-generation collegegoers.

Posse Scholars persist and graduate at a rate of 90 percent. In our college graduating class of 2017:

- 80 percent held an official leadership position (founder, president, officer, etc.) in a student organization while on campus
- 54 percent studied abroad
- 83 percent plan on attending graduate school

Through DAP, The Posse Foundation is expanding the pool from which top colleges can recruit outstanding young leaders.



Praise for Posse STEM Program





Posse STEM has proven to be one of the most successful of the many efforts across the country aimed at increasing the diversity of the STEM workforce. The idea to start it at Brandeis came to me because of the great success we have had with our traditional Posse program. It occurred to me that if all the Scholars in a Posse were aiming toward a future in STEM, the mutual support system of the Posse would tend to keep them pointed in that direction even when they encountered the inevitable obstacles that nearly all STEM students have to overcome. Supplementing the original Posse model with a summer immersion program and early exposure to research, the idea has succeeded beyond my wildest expectations.

Irv Epstein, Professor of Chemistry, Brandeis University



The results speak for themselves. After four semesters, our first STEM Posse cohort has earned a higher GPA in a science and math-heavy curriculum than their class as a whole. And this high performance is the norm. In last May's senior class, 17 percent of our STEM majors were first-generation college students, and they graduated with average GPAs right on a par with all their STEM major peers. Many of them are also engaged in hands-on research of real scientific significance on our campus and in acclaimed labs across the country, like the Argonne National Laboratory in Chicago. We invest resources to give students research opportunities with faculty, which every study I know of has validated. I cannot imagine F&M without our STEM Posse students. They have made F&M an even greater place—even more dynamic, even more a community, even more true to our ideals.

Dan Porterfield, President, Franklin & Marshall College



Building and sustaining a diverse STEM pipeline is a national imperative. We know that students who are underrepresented in various STEM disciplines are more likely to persist if they develop a sense that they belong in those fields. The Posse Foundation directly and effectively promotes that belonging as well as the partnerships that provide Posse students with amazing opportunities to pursue STEM education and careers. Bryn Mawr College shares these commitments and is proud of its partnership with The Posse Foundation and its STEM Posse students.

Kim Cassidy, President, Bryn Mawr College





Posse's STEM initiative has proven to be an outstanding model of success for this nation. We need Posse alumni leading in every STEM field and know they will bring a deep sense of social justice to their endeavors.

Michael Strautmanis, Chief Engagement Officer, Obama Foundation

STEM Program Context + Background

The U.S. Economics and Statistics Administration projects STEM JOBS WILL GROW BY 13 PERCENT OVER THE NEXT DECADE, continuing to outpace other sectors. To keep up with this demand, and to keep the United States competitive in the STEM fields, will require a considerable increase in the number of STEM graduates in the coming years. Despite the need, however, the U.S. Department of Education reports that only 16 percent of high school students are math-proficient and interested in working in a STEM field. Of those who do major in STEM in college, only half ultimately pursue a STEM-related career.

Racial minority groups are especially underrepresented in STEM and STEM-related fields. Although studies indicate these groups may be interested in pursuing STEM degrees at the same rates as non-minority groups, the research shows that minority students complete STEM degrees and pursue STEM career paths at rates well below average. Despite a recent increase in STEM degree acquisition, the U.S. Department of Education reports that of all STEM degree recipients, only 7.5 percent were Black and percent were Hispanic, a gross underrepresentation of the general population for both of these demographics. In 2011, only 6 percent of STEM workers were Black and percent were Hispanic.

Women are also sorely underrepresented, staking only 24 percent of the largely male-dominated STEM workforce.⁷ Whereas 20 percent of women with degrees in science and engineering are out of the labor force, the statistic is less than 10 percent for their male counterparts.⁶ In addition, women account for only 18 percent of full professorships in science and engineering, despite holding 36 percent of STEM doctorates.⁸

Scientific and technological innovations are inextricably linked to our national health, security and global competitiveness. WE WILL NEED LEADERS WITH CREATIVE, SCIENTIFIC, AND TECHNICAL SKILLS WHO COME FROM A TRUE DIVERSITY OF SOCIOECONOMIC, CULTURAL AND ETHNIC BACKGROUNDS.

The Posse STEM Program recruits, trains and supports cohorts of students in science, technology, engineering and math. Posse, with its outstanding partner colleges and universities, helps improve the numbers and performance of underrepresented students majoring in STEM fields while simultaneously helping to develop more welcoming campus communities for students from diverse backgrounds.



STEM Program Context + Background

The Posse STEM Program began as a pilot at Brandeis University, a longtime Posse partner institution. Dr. Irv Epstein, a distinguished professor of chemistry, championed the initiative, believing the Posse cohort model could be applied to students interested in STEM with similar positive results. The first Brandeis STEM Posse matriculated in 2008. The experiment proved a success, with a 100 percent

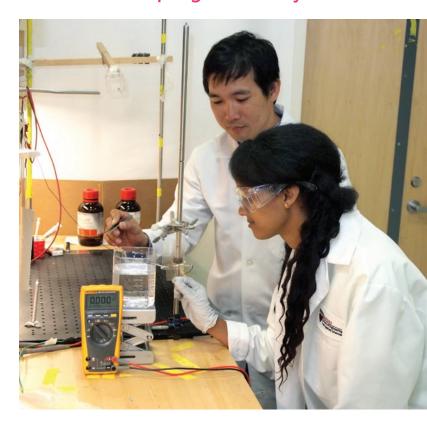
From 2008 to 2013 the program expanded to four additional institutions: Bryn Mawr College, Franklin & Marshall College, Texas A&M University, and the University of Wisconsin–Madison.

graduation rate.

In 2014, Posse announced at The White House Summit on Higher Education that it would double the size and scope of its successful program. Davidson College, Middlebury College, Pomona College, Smith College, University of Michigan and Wellesley College have since joined the initiative. Two major donors, Jeff Ubben, CEO of ValueAct Capital and Posse Board chair emeritus, and the Tortora Sillcox Foundation, pledged \$5,000,000 to help support the participating institutions in this expansion over a period of five years.

Over the past 10 years, the Posse STEM Program has supported 594 Scholars, the majority of whom are first-generation college-goers from underrepresented backgrounds. POSSE STEM SCHOLARS BOAST A GRADUATION RATE ABOVE 90 PERCENT. Close to 80 percent of the program's 105 alumni graduated with a degree in a STEM field. Forty-four alumni have gone on to graduate study, with most pursuing advanced STEM degrees. Posse STEM Scholars and alumni have received numerous awards, including highly coveted fellowships and grants from the National Science Foundation, GEM and Howard Hughes Medical Institute to name a few. Their success is proof positive the program works.

The following provides a picture of Posse's STEM program today.



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Special Thanks

In June of 2014, Posse President and Founder Deborah Bial announced the expansion of Posse's science, technology, engineering and math (STEM) program during a White House summit on higher education at which she was a panelist.

Focusing on issues of diversity in higher education, the summit included remarks by then-**President Barack Obama** and **First Lady Michelle Obama**, both of whom referenced the successes of Posse Scholars. We are thankful for their leadership in the discussion on STEM education in the United States and for their continued belief in the Posse Program.

We also thank the presidents of our 11 partner universities and colleges for their dedication to Posse Scholars and continued support of the Posse STEM Program:

Brandeis University President Ronald D. Liebowitz
Bryn Mawr College President Kimberly Wright Cassidy
Davidson College President Carol Quillen
Franklin & Marshall College President Daniel R. Porterfield
Middlebury College President Laurie L. Patton
Pomona College President G. Gabrielle Starr
Smith College President Kathleen McCartney
Texas A&M University President Michael K. Young
University of Michigan President Mark S. Schlissel
University of Wisconsin-Madison Chancellor Rebecca M. Blank
Wellesley College President Paula A. Johnson

Jeff and Laurie Ubben and the **Tortora Sillcox Family Foundation** have earned our heartfelt gratitude for their generous contributions in support of the development and expansion of the Posse STEM Program.

We extend further thanks to the **Altman Foundation**, **Carnegie Corporation of New York**, and the **Simons Foundation** for their significant grants supporting Posse's STEM program.

We are grateful for the additional funding for the program provided by Con Edison, Stella and Charles Guttman Foundation, Leonetti/O'Connell Family Foundation, Linde Family Foundation, Leon Lowenstein Foundation and Redlich Horwitz Foundation.

The success of the expanded Posse STEM Program would not have been possible without the knowledgeable and insightful work of Brandeis University Professor Irv Epstein—who, with funding from HHMI, helped pilot the Posse STEM model—and his colleagues Associate Provost Kim Godsoe and Professor Melissa Kosinski-Collins. From the inception of the Posse STEM Program, these three individuals and Brandeis as a community worked with our first Posse STEM Scholars and staff to hone a process that has yielded incredible results. Brandeis' leadership and curriculum development has paved the way for a growing community of colleges, universities and Posse Scholars invested in the work of STEM.

With expansion of the Posse STEM Program has come a robust network of advocates at each of our 11 partner colleges and universities. In particular, we must thank the Posse liaisons and STEM point people on each campus:

Robert Bisor Peter D. Brodfuehrer Travis Brown Donnell Butler Verna Miller Case Vanessa Christman Sumana Datta Susan DeSimone Jocelyne Dolce Irving Epstein Miriam Feldblum Miguel Fernandez Kim Godsoe Sandra Gregerman **Chris Gruber** Ken Hess Emilie A. Hofacker Kedra Ishop

Valerie Joseph Melissa Kosinski-Collins Pedro Marenco Scott McDonald Denise McKahn **Kate Queeney** Stephanie Riegle Joy St. John Roger Sandwick Mike Schoenfeld Tim Scott **Patrick Sims Audrey Smith** Cathy Summa Sarah Theobald Peter de Villiers Jennifer Whitfield

In addition to our partner institutions, Posse staff members have been dedicated and creative in their support of the STEM program and Scholars. We truly appreciate your effort.

Finally, we thank all the amazing Posse Scholars whose success and leadership have paved the way for expansion of this initiative, increasing opportunity for diverse young people interested in STEM.

Posse STEM Pre-Collegiate + Immersion Programs

Pre-Collegiate Training

Posse Scholars are selected in December and begin attending weekly after-school workshops at Posse offices in January. Workshops are facilitated by Posse trainers who continue to work with them once they have matriculated at college.

The curriculum consists of a series of workshops delivered over an eight-month period (January to August) and designed to train Posse Scholars to be successful college students and strong leaders. The program includes the following components:

- + Team Building and Group Support
- + Diversity and Cross-Cultural Communication
- Leadership and How to Become an Active Agent of Change on Campus
- + Academic Excellence

Specialized STEM Workshops

As part of the academic excellence component, Posse has incorporated five standard STEM workshops and activities that involve the partner institution more directly and are intended to provide college-level feedback to the Scholars.

- 1. Math Workshop Part I: Problem Set + STEM Culture on Campus
- 2. Math Workshop Part II: Applied Math
- **3.** Lab
- 4. Book Report
- 5. Science Writing Workshops

Two-Week Summer Immersion Program

Within their Pre-Collegiate Training experience, STEM Posse Scholars participate in a two-week summer immersion program designed to expose them to college-level STEM work. The immersion program takes place on campus where students meet with STEM professors, conduct lab work, and take part in field trips—all with the goal of familiarizing them with the rigors and rewards of study in STEM.



Posse STEM Campus Program

The Goal

The Campus Program helps institutions build more interactive campus environments so they can become more welcoming institutions for people from all backgrounds. It ensures that Posse Scholars persist in their academic studies and graduate so they can take on leadership positions in the workforce. The Campus Program has multiple elements.

University Liaison

In addition to providing full-tuition leadership scholarships to Posse Scholars, each university identifies a key campus administrator to serve as liaison to the program, work closely with Posse to select Scholars and mentors, and develop a community of supporters on its campus. Strong commitment from our university partners ensures success for the program.

STEM Point Person

Chosen from STEM faculty or senior administration, this STEM point person's main responsibility is to run the summer immersion program, coordinate with Posse staff to deliver specialized pre-collegiate workshops and advise the liaison on issues related to STEM at the university.

STEM Mentor

Each year the partner institution and Posse work together to select a mentor, chosen from STEM faculty, for each incoming STEM Posse. The STEM mentor works collaboratively with Posse staff to support the STEM Posse on campus. Each mentor meets weekly with the Posse as a team and with each Scholar individually every two weeks during the first two years in college. Posse provides a curriculum for group meetings. The STEM Mentor also helps Scholars navigate the culture of STEM at the university and the paths to research opportunities.

Campus Visits

Twice a semester, Posse staff visit the campus to meet with Scholars, explore career opportunities with Posses, check in with the liaison and other key faculty and staff, and provide support for mentors. Posse staff also facilitate a unique Posse graduation ceremony for our partners with graduating seniors.

PossePlus Retreat

The PossePlus Retreat is a weekend of interactive, inspiring and challenging workshops focused on a topic chosen by Posse Scholars across the nation. A cross-section of the entire campus community, including students, faculty, and administrators, comes together to immerse themselves in an issue and invest in deepening their understanding of and communication with one another.

Retreats take place off-campus and are facilitated by Posse staff and retreat facilitators. PossePlus Retreats are a forum for social, cultural and political dialogue and also create a community for students, allowing their voices to be heard.

Recent PossePlus Retreats have centered on the following themes:

- + Hope, Hate and Race in the United States
- + Us vs. Them
- + Sticks & Stones: Language, Labels and Triggers
- + Crime & Punishment

Off-Campus Campus Program

If a Scholar takes a leave of absence for any reason, Posse staff work to help the student return to school. They meet with the Scholar to develop a plan for re-enrollment, connecting the student to appropriate resources, and inspiring them to work diligently toward re-admission.

Campus Research + Lab Opportunities

The partner college or university is strongly encouraged to offer research and laboratory opportunities to all STEM Posse Scholars. Beyond academic growth and networking benefits, research has shown that such opportunities increase persistence rates and more fully engage and inspire students in the STEM fields.

Recruitment

Dynamic Assessment Process Data

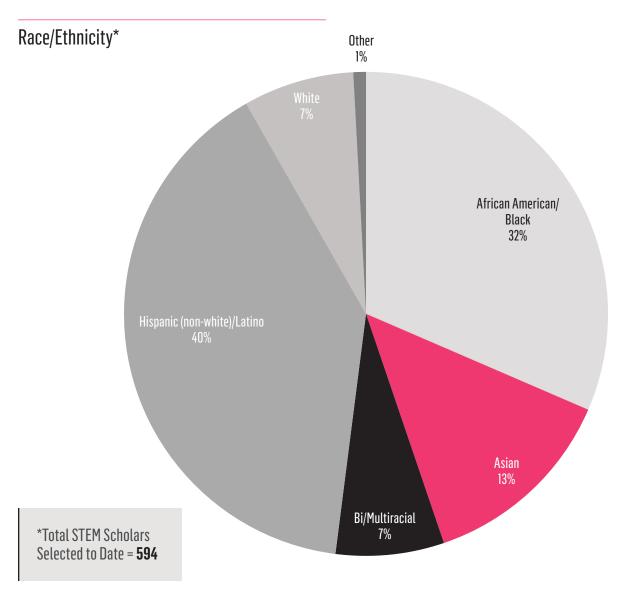
2017 Nomination Process

STEM Posse Nominations	4,944
Selected STEM Posse Scholars	113

STEM Scholars Selected to Date (2007 to present)

Total STEM Scholars Selected to Date			
Average High Cohool CDA	2.0		
Average Reading + Meth SAT	3.9		
Average Reading + Math SAT	1208		
Average ACT Composite	21		
Average SAT Math Score	617		
Average ACT Math Score	27		

STEM Scholars Selected to Date

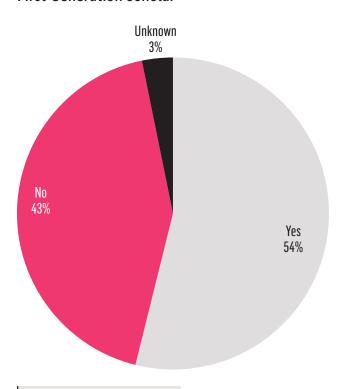


Recruitment

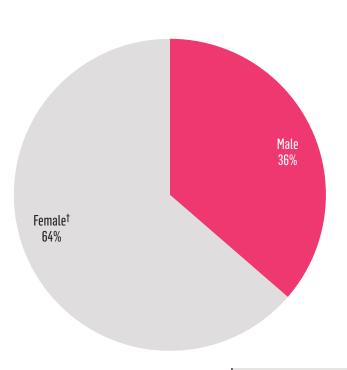
Dynamic Assessment Process Data

STEM Scholars Selected to Date





Sex*



*Total STEM Scholars Selected to Date = **594** † 3 of the 11 STEM partner institutions are women's colleges



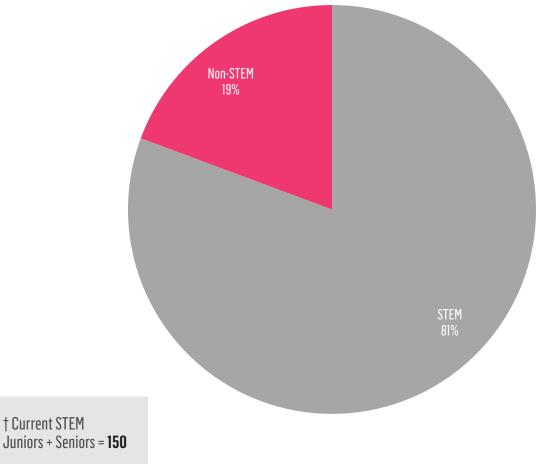
STEM Scholars on Campus

GPA – Undergraduate STEM Scholars

Cumulative GPA by class year						
Overall	First Years	Sophomores	Juniors	Seniors		
3.11	3.12	3.18	3.15	3.04		

STEM Majors - Current Juniors + Seniors*

Definitions of STEM majors/degrees vary by institution of higher education. In order to designate STEM majors, Posse uses the STEM degree list approved by the U.S. government.[†]

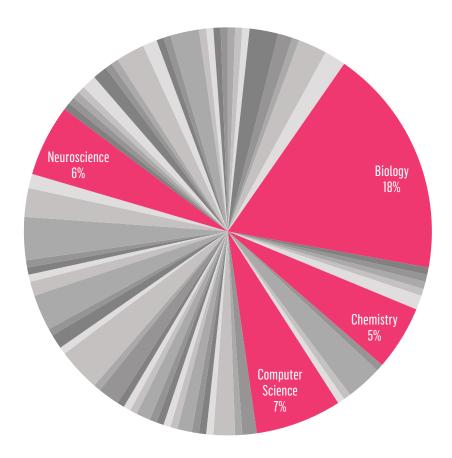


Campus Program Data

Declared Majors - Current Juniors + Seniors*

- 18.2% Biology
- 6.8% Computer Science
- **5.7%** Neuroscience
- 5.1% Chemistry
- 3.4% Health: Science, Society and Policy
- **3.4%** Mathematics
- 2.8% Civil Engineering
- 2.8% International Studies
- 2.3% Animal Behavior
- 2.3% Biochemistry
- 2.3% Molecular Biology
- 2.3% Psychology
- 2.3% Sociology
- 1.7% Biochemistry and Molecular Biology
- 1.7% Economics
- 1.7% Geology
- 1.1% Anthropology
- 1.1% Chemical Engineering
- 1.1% Construction Science
- 1.1% Engineering Science
- 1.1% Environmental Science & Policy
- 1.1% Industrial Distribution
- 1.1% Kinesiology
- 1.1% Neurobiology
- 1.1% Philosophy
- 1.1% Physics
- 1.1% Public Health
- **0.6%** Aerospace Engineering
- 0.6% African and Afro-American Studies
- 0.6% Agricultural Business Management
- 0.6% Art History
- **0.6%** Biomedical Engineering
- **0.6%** Biomedical Sciences
- **0.6%** Business
- **0.6%** Business Management
- 0.6% Chemistry & Biochemistry
- **0.6%** Communication Arts
- **0.6%** Computer Engineering
- **0.6%** East Asian Studies
- **0.6%** Education Studies
- 0.6% Electrical Engineering
- **0.6%** Engineering BA
- 0.6% English
- **0.6%** Entomology
- 0.6% Environmental Analysis
- 0.6% Environmental Science

- 0.6% French
- 0.6% General Studies
- 0.6% Genetics
- 0.6% German
- 0.6% History of Art and Architecture
- 0.6% Interdisciplinary Studies
- 0.6% Language and Linguistics
- **0.6%** Law
- 0.6% Legal Studies
- 0.6% Nuclear Engineering
- 0.6% Nursing
- 0.6% Nutritional Sciences
- **0.6%** Petroleum Engineering
- 0.6% Political Science
- **0.6%** Portuguese-Brazilian Studies
- 0.6% Public Policy Analysis
- 0.6% Scientific and Philosophical Studies of Mind
- 0.6% Technology Management
- **0.6%** Theatre
- 0.6% Wildlife Ecology
- 0.6% Zoology

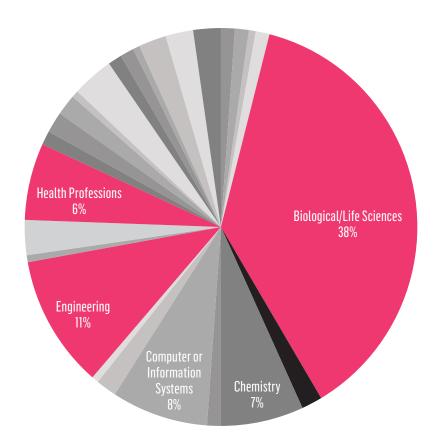


*150 students had 176 majors

Campus Program Data

Field of Study - Current Juniors + Seniors*

- 37.5% Biological/Life Sciences
- 10.8% Engineering
- 8.0% Computer or Information Systems
- 6.8% Chemistry
- **6.3%** Health Professions
- 3.4% Mathematics/Statistics
- 2.8% Foreign Languages/Linguistics
- 2.3% Political Science/Government
- 2.3% Psychology
- 2.3% Sociology
- 1.7% Business Commerce
- 1.7% Economics
- 1.7% Interdisciplinary Studies
- 1.7% International Relations
- 1.1% Anthropology/Archeology
- 1.1% Architecture/Environmental Design
- 1.1% Arts-Visual/Performing
- 1.1% Communications/Journalism
- 1.1% History
- **1.1%** Other
- 1.1% Philosophy/Religion/Theology
- 0.6% Area/Ethnic Studies
- 0.6% Education
- 0.6% English/Literature
- **0.6%** Law
- 0.6% Physics



*150 students had 176 fields of study



STEM Alumni*

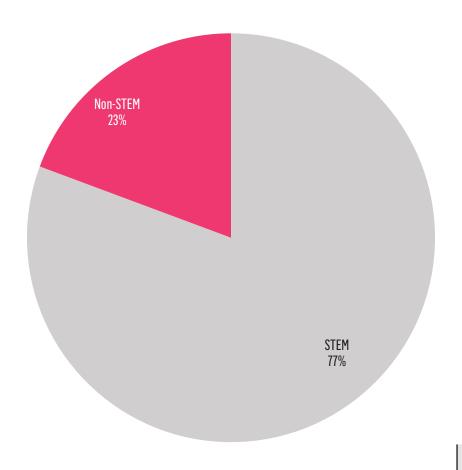
Average Final GPA

3.14

Graduation Rate 92%

Degree Major – STEM Alumni*

Definitions of STEM majors/degrees vary by institution of higher education. In order to designate STEM majors, Posse uses the STEM degree list approved by the U.S. government.¹

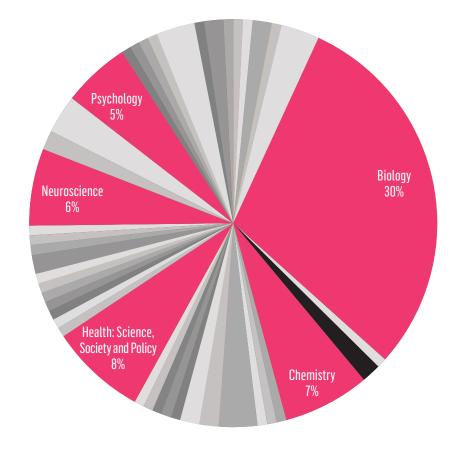


*Total STEM alumni = **105**

Alumni **Data**

Undergraduate Majors – STEM Alumni*

- **29.8%** Biology
- 7.6% Health: Science, Society and Policy
- 6.9% Chemistry
- 6.1% Neuroscience
- **5.3%** Psychology
- 3.1% Biochemistry and Molecular Biology
- 3.1% Computer Science
- 3.1% Physics
- 3.1% Sociology
- 1.5% Anthropology
- 1.5% Business
- 1.5% Economics
- 1.5% Environmental Sciences
- 1.5% Materials Science and Engineering
- 1.5% Petroleum Engineering
- 1.5% Women's and Gender Studies
- 0.8% AG- Bioenvironmental Sciences
- 0.8% Animal Science
- 0.8% Biochemistry
- 0.8% Biology Evolutionary Biology
- 0.8% Chemistry (Chemical Biology Specialization)
- 0.8% Civil Engineering
- 0.8% Communication Arts
- **0.8%** Financial Engineering
- 0.8% Gender and Women's Studies
- 0.8% Genetics
- 0.8% Geography
- **0.8%** Geoscience
- **0.8%** History
- **0.8%** Human Development and Family Studies
- 0.8% Industrial Distribution
- 0.8% International Studies
- **0.8%** Landscape Architecture
- **0.8%** Language and Linguistics
- **0.8%** Life Sciences Communication; with an emphasis in Strategic Communication and Data Analysis
- 0.8% Mathematics
- **0.8%** Mathematics & Economics
- **0.8%** Microbiology
- 0.8% Public Health
- **0.8%** Scientific and Philosophical Studies of Mind (SPM)
- 0.8% Social Welfare
- 0.8% Social Work
- 0.8% Spanish
- 0.8% Zoology



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*105 alumni had 131 majors

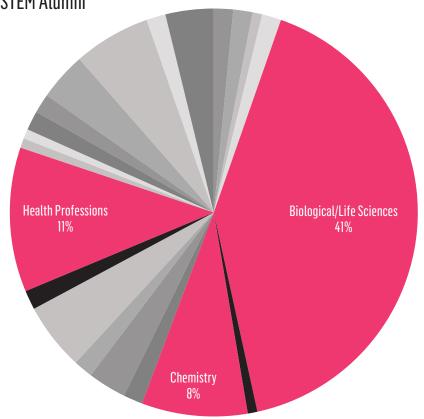


- **41.2%** Biological/Life Sciences **11.5%** Health Professions
- 8.4% Chemistry
- 6.1% Psychology
- 5.3% Engineering3.8% Physical Sciences
- 3.8% Sociology
- 3.1% Computer or Information Systems
 1.5% Agriculture and Natural Resources
 1.5% Anthropology/Archeology
 1.5% Area/Ethnic Studies
 1.5% Communications/Journalism

- 1.5% Economics
- 1.5% Foreign Languages/Linguistics1.5% Interdisciplinary Studies1.5% Mathematics/Statistics

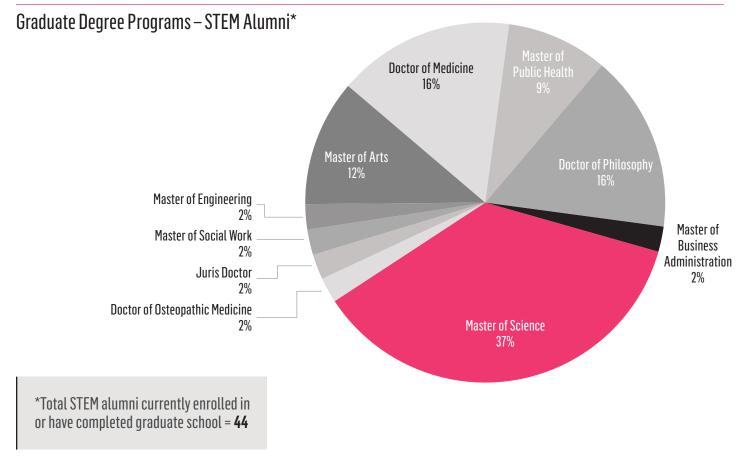
- 1.5% Social Work
- 0.8% Architecture/Environmental Design0.8% Business Commerce
- **0.8%** History
- 0.8% Human Development/Family Studies

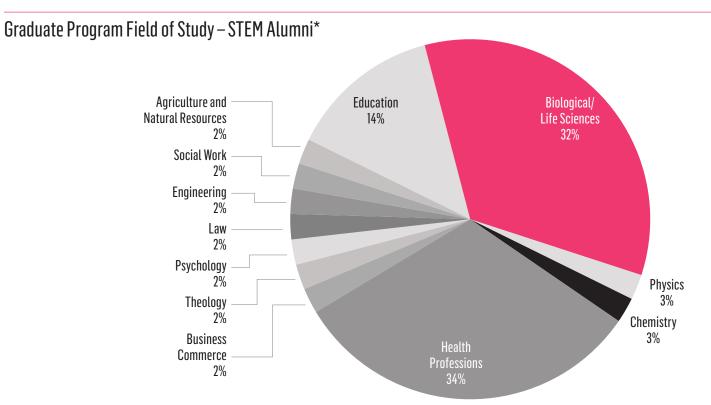
*105 alumni had 131 fields of study



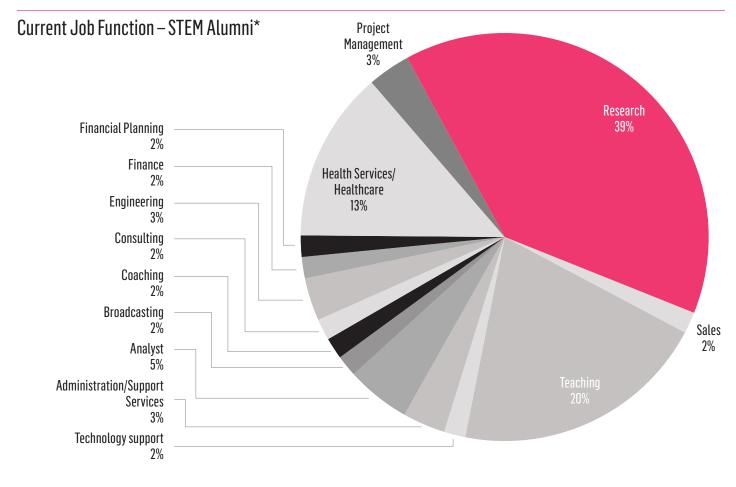


Alumni Data

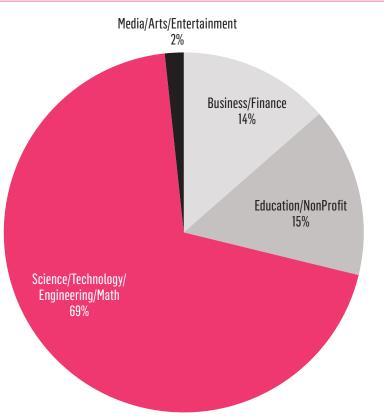




Alumni Data







*n = **59**

Awards + Fellowships

$S = \begin{bmatrix} \frac{1}{2} & \frac{1}{\sqrt{2}} &$

Honors Received by STEM Scholars + Alumni

 $32 BJ\ Training\ Fund\ Scholarship$

ABRCMS Presentation Award

Albert Shanker College Scholarship, United Federation of Teachers

American Physiological Society Excellence in Undergraduate Research Award

American Physiological Society Outstanding Abstract Award

Annual Biomedical Research Conference for Minority Students Travel Award

Arista Scholar for Academic Excellence Asian & Pacific Islander American Scholarship

Associate for Chemosensation Diversity Travel Fellowship

Bicentennial Award Bonner Scholarship

Brandeis University/NIDA Undergraduate Traineeship in Computational Neuroscience

Brandeis University Division of Science Summer Research Fellowship

Brandeis University India Initiative Fellowship

Brandeis University Joel Friedland '76 Endowed Study Abroad Scholarship

Brandeis University Sachar Scholarship

Brandeis University Schiff Undergraduate Fellowship

Brandeis University Student Support Services Program Scholarship

Brandeis University Rose Schlow Award Carnegie Foundation Internship Award

Cement and Concrete Workers District Council Scholarship

Center for German European and European Studies Essay Competition, First Place

Chandler Fulton Prize for Undergraduate Research

CIEE GAIN Scholarship

Clinton Global Initiative University Representative

Committee on Grants Award Commonwealth Research Scholarship

CTC Ten Fellowship

Dana Scholar, Charles A. Dana Foundation Davidson Research Initiative DRI Grant Dean of College Travel Award

Delphic Student-Athlete Honor Society
Department of Multicultural Services Spotlight

Division of Science Summer Undergraduate Research Fellowship

Dorothy Strong Biology Scholarship Eli J. Segal Leadership Fellowship

Emory International Global Health Innovation Award

Eric C. Rackow, M.D. '67 Achievement Scholarship for Pre-Health Students

Exceptional Research Opportunities Program (EXROP)

Experiential Learning Fellowship

Extreme Engineering Winning Team, SHPE National Conference

FASEB MARC Travel Award Recipient Forbes 30 Under 30 Contributor

Frank J. and Jean Raymond Entrepreneurship Scholarship Frontiers Master's Program, University of Michigan

Fulbright U.S. Student Program Gates Millennium Scholarship

GEM Associate Fellow

Gilman International Scholarship Program Goldsmith Family Foundation Scholarship Greek Fraternity Leadership Award Hackman Research Residency Program Hackman Summer Scholars Program

Harry S. Levitan Prize Hispanic Scholarship Fund

Howard Hughes Medical Institute Capstone Research Fellowship

Howard Hughes Medical Institute Research Grant

Howard Hughes Medical Institute Medical Research Fellowship International Society of Automation (ISA) Scholarship, Houston Section

International Society of Automation (ISA) Scholarship, Texas Channel Section

Jack Kent Cooke College Scholarship

Jaeger Mathematics Prize

Jane's Travel Grant

Jensen Engineering Diversity Scholarship Joel Friedland '76 Study Abroad Scholarship Kassenbrock Brothers Memorial Scholarship Kelsey Lynch Social Justice Scholarship

Leaders in Engineering Excellence and Diversity Scholarship (LEED Scholar)

Leser Grant for Biochemistry Research

Margaret Eyler Award to Outstanding Pre-Medical Female Student

Marshall Scholarship Mary Jagoda Fellowship

Maurice J. and Fay B. Karpf & Ari Hahn Peace Endowment Award

McKinley Pre-Honors Fellowship

McNair Scholarship

Mellon Mays Undergraduate Fellowship

Meyerhoff Graduate Research Fellowship in Biomedical Sciences

Miami-Dade County Fair & Exposition

Michael and Irene Frangos Memorial Scholarship

Middlebury College Scholar Distinction

 $National\ Institutes\ of\ Health\ Undergraduate\ Scholarship\ Program$

National Science Foundation: Research Experience for Undergraduates (REU)

National Society of Collegiate Scholars

Nigerian American Multi-Service Association Scholarship

O'Melveny & Myers Scholarship

Outstanding General Chemistry Student Award

Pensby Fellowship Phoenix Award

President's Endowed Scholarship Provost's Undergraduate Award Rackham Merit Fellowship Program

Rackow Summer Grant

Rotary Scholarship of Coral Gables

Rouse Scholarship SACNAS Travel Scholarship

Scan|Design Foundation Study Abroad Scholarship Scholastic Art & Writing Awards, Gold Key

Society of Hispanic Professional Engineers (SHPE) Rookie of the Year

Society of Women Engineers Most Active Member Award Stanford Undergraduate Research Journal (published)

Stephen D. Guarino Memorial Award

Student Support Services Program Experiential Award Summer Medical and Dental Education Program

Summer of Science Award Sustainability Fund Grant Terry Foundation Scholarship

Undergraduate ALFALFA Team Research Award

UW-Madison Engineering Freshmen Academic Achievement Award

UW-Madison Undergraduate Research Scholar (URS) Vera and Donald Wallach Scholarship Award

Wade Fetzer Award

WiscAMP Advanced Opportunity Award

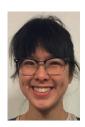
Wisconsin Space Grant Consortium Research Award World of Work (WOW) Fellowship, Brandeis University



Sultana Bhuiyan Brandeis University, Class of 2021, Biology

Sultana joined the High School for Health Professions Science Research Program in 10th grade precisely because it provided mentorship with a Memorial Sloan Kettering Cancer Center researcher and opportunities to participate in

national competitions. Sultana has earned an Emperor of Science Award for cancer research and volunteered for over 200 hours at Mount Sinai Hospital's Cardiovascular Institute. Still in her first year on campus at Brandeis, Sultana has joined the Muslim Students Association and is working toward a biology major with a possible minor in education. In long term goals, Sultana plans to earn a doctorate in cardiology and genetic therapy and spend time teaching after publishing.



Alice Wu Brandeis University, Class of 2020, Computer Science

Alice, a second-year student at Brandeis, has already secured two consecutive summer internships with Google. An indefatigable woman committed to a career in science, Alice is determined to excel as a coder. After teaching

herself a range of skills using books, she founded her high school's robotics team. On campus at Brandeis she is a student worker at the MakerLab, a free-of-charge resource that aims to enable the entire community to improve the world by creating things with their hands, hearts and minds. Alice is also involved in the Asian-American Student Association and serves as a Student Support Services Program tutor.



Yuying Guo Bryn Mawr College, Class of 2018, Biology

Yuying is a first-generation college student and a senior majoring in biology. Both on and off campus, she is actively engaged in research. Throughout her four years at Bryn Mawr, Yuying has worked in a lab that studies genetic variation in budding yeast. Her

interest in research also led her to work at the National Emerging Infectious Diseases Laboratories, where she explored the field of virology and studied the Ebola virus. Yuying is passionate about mentoring and tutoring younger children. She aspires to become a pediatric dentist and hopes to continue to conduct research within her profession.



Ann Tran

Bryn Mawr College, Class of 2018, Computer Science and Mathematics

Ann Tran is a senior at Bryn Mawr with a major in computer science and minor in mathematics. An active member of the campus community, Ann was the co-class president for her first and second year.

She has spent time serving as a student coordinator for Adelante, a STEM enrichment program for middle school students. In that role, Ann plans weekly lessons on STEM-related topics while incorporating a social justice component. She has also worked with a professor in the biology department, learning and applying computational biology and program language to find trends in large-scale data sets related to environmental issues. Ann has held internships in science fields for the past three summers. She was an intern at the New England Aquarium, developing her passion for whales and environmental science. In 2016, she worked at Blue Cross Blue Shield as a software developer. This past summer Ann was a technology consultant intern at PwC, and has since been hired to a full-time position following her graduation.



Claudia Hernandez Davidson College, Class of 2020, Chemistry

Claudia's love of chemistry started when she took a challenging high school AP class. That experience fueled a passion to work towards becoming a chemist. She dreams of working in a national laboratory, doing groundbreaking research

with other chemists from around the world. Claudia's commitment to community and serving others has led to weekly volunteering with the Davidson College Presbyterian Preschool, membership in the American Chemical Society, and participation with the Davidson Civic Engagement Center. Claudia's altruism and zeal to make life better for others have been shaped by a personal love of super heroes. She is a firm believer that there is a hero in all of us.



Jonathan Nicoleau

Davidson College, Class of 2021, Undeclared

Jonathan lives by the phrase "If you're not making someone's life better, then you're wasting your time." He spends time as a peer leader in his church, mentoring and guiding young students throughout the year. Jonathan is captain of the

Davidson lacrosse team and involved in the French Honor Society. He also co-founded a nonprofit called Restore Hope Haiti that collects school supplies, toys and toiletries for needy communities in Haiti. As part of Breakthrough Miami, he teaches science to a 5th grade class and sets up workshops around Haiti to help reinforce math and English skills. Combining his passions for helping others and for science, Jonathan is interested in following a pre-med track at Davidson College.



Jamila Gowdy

Franklin & Marshall College, Class of 2021, Biochemistry

Jamila grew up in a military family, with each of her parents deployed at multiple times during her life. In response, she created Jamila's Patriots Project which gives back to paraplegic veterans returning from combat. Pulling from her experience

as captain of her school's golf team, Jamila raises funds in the community to purchase ParaGolfer equipment for paraplegic veterans. "I never want someone to allow society or their limitations to define them," she says. Jamila plans to major in biochemistry and molecular biology at Franklin & Marshall College. She hopes to become an anesthesiologist.



Kate Meyers

Franklin & Marshall College, Class of 2019, Chemistry

Kate is a general chemistry tutor at Franklin & Marshall College, taking pride in helping students understand the fundamentals of chemistry. She is also a Brooks house advisor, a recruitment advisor for Phi Sigma Pi, a trumpet player in the

F&M Orchestra and Philharmonic, and part of Environmental Action Alliance. Kate has had the opportunity to complete chemistry research alongside Professor Ken Hess. "It was a wonderful experience that introduced me to so many brilliant people in the department and really solidified my love for the subject," she says. She plans on attending graduate school for environmental chemistry.



Paola Meza

Middlebury College, Class of 2019, Neuroscience

Paola Meza is currently a junior at Middlebury College. In her first two years on campus she co-founded Underrepresented in STEM, which aims to help support students of color in the STEM field. The organization was awarded the Outstanding

New Organization Award by Middlebury College. Last year, Paola was selected for the prestigious Ubben Fellowship program, which gave her the opportunity to work directly with Karen and Irwin Redlener, founders and executive directors of the Children's Health Fund (CHF). As an Jeff Ubben Fellow at the CHF, Paola developed tutoring and teaching materials for children from low-income families who require homeschooling due to chronic health conditions. Off campus in Vermont, Paola translates at a local free low-income clinic, primarily for Spanish-speaking agricultural workers. She has served as facilitator for Middlebury's Jus Talks, a forum for conversations and workshops about identity as seen through the lenses of race. class, gender, sexuality and ability. Jus Talks are targeted to first-year students acclimating to college and aim to increase community dialogue and participation. Paola is also a first-generation student mentor through Middlebury's new first-generation student orientation program.



Anthony Turcios

Middlebury College, Class of 2020, Computer Science

Anthony Turcios is a sophomore at Middlebury College. He has achieved College Honors recognition for every semester on campus so far and currently boasts a 3.70 GPA. As a first-year student, Anthony secured a teacher's assistant

position for the physics lab course "Electricity and Magnetism." This past summer he conducted research in a physics laser lab where he explored the efficacy of lasers in identifying optimal administration sites for intravenous medication. Anthony has declared a computer science major and he also tutors math and physics at the Center for Teaching, Learning and Research.

Additionally, Anthony received full funding to participate in Middlebury's Student Trek in Technology in California, where he shadowed alumni and explored Silicon Valley in a living and learning experience. Student Trek candidates are chosen based on desire for a future career in the tech industry, demonstrated through activities and coursework. While in California, Anthony shadowed professionals at Google, Paypal, TapFwd and Salesforce, and participated in events with industry representatives. He hopes to be an aerospace engineer one day, designing aircraft for military and consumer use.



Theodore Lang

Pomona College, Class of 2019, Molecular Biology

Theodore Lang is a junior at Pomona College majoring in molecular biology. While at Pomona, he spearheaded the creation of the first Black Student Union on campus and mentors young men of color at a local high school as co-director of The Young

Men's Circle. Theodore's research interests center on cancer biology, and he hopes to attend medical school to become a pediatric hematologist or oncologist. He would like to use scientific knowledge to not only combat disease, but also to inspire future generations. His long-term goal includes building programs aimed at increasing underrepresented minorities in the sciences and in the field of medicine. As an advocate of social and health equity, Theodore wants to empower those who desire success and work with underserved communities to dismantle healthcare disparities.



Kristina Reed

Pomona College, Class of 2019, Neuroscience

Kristina is a member of the first Miami STEM Posse at Pomona College, where she is now a junior neuroscience major. Her proudest accomplishments in college include running her first half-marathon and achieving fluency in

Spanish. She is involved in the Christian Fellowship and the Global and Public Health Committee of the Pomona Student Union. Kristina is particularly interested in studying the neuroscience of trauma, which she plans to apply to a career in emergency medicine and public health.



Mariama Jaiteh
Smith College, Class of 2020, Computer Science

Mariama fell in love with Smith College in high school, drawn to the community and the focus on research. She arrived on campus already with a reputation as a diligent and ambitious academic. Now a second-year student, Mariama has used her

January term to serve on the STEM Teaching Fellows recruiting committee, where she was introduced to educational pedagogy, lesson planning, classroom management and standards while working in elementary and middle school science classrooms. Mariama is a thoughtful participant in Posse gatherings and has her sights set on more fruitful semesters ahead. To date her academic focus has been statistical and data sciences. Mariama hopes her work ethic will help her emerge as a top candidate for a career with an industry-leading company such as Accenture, Google or Girls Who Code—a program of which she is an alumna.



Jennifer Moran Smith College, Class of 2019, Sociology

Jennifer is a junior at Smith College and a first-generation college student. As a first-year student, Jennifer served as the vice president for her class' Smith College Class Council and has continued in student government ever since. She

has been an Elections and Appointments committee member, helping to organize and run all college and class elections. While working two jobs, Jennifer also led a Latino/a youth ministry group and served as a class reunion ambassador. She completed the Cultural Vistas program in Argentina last summer, and the School for International Training Study Abroad Social Innovation and Community Development Program in Brazil.



Tracy Ike

Texas A&M University, Class of 2019, Petroleum Engineering

Tracy was awarded a paid three-month internship with Shell. Her experience in the field has solidified her desire to pursue a career in engineering. On campus, she works diligently to create welcoming spaces for engineer majors generally

and has become a retreat facilitator for aspiring petroleum engineering majors. Tracy uses her training as a Posse Scholar to engage the campus community in team-building activities, aiming to help others find their passion.



Vennela Puthugunta

Texas A&M University, Class of 2019, Chemical Engineering

Vennela is well on her way to a degree in chemical engineering with a minor in business administration. She was one of 60 students selected for a 48-hour design experience at the Engineering Innovation Center, TAMU's rapid

prototyping lab. Her team won a prize to continue their project. She also joined an all-women's team in their creation of a competition-ready "super mileage" fuel-efficient car. Vennela was part of the Freshman Leadership Committee in the Society of Women Engineers and is now the committee's professional development chair. She is also a math and chemistry tutor for the TAMU and Posse community. Vennela's competitive academic record has enabled her to take on a co-op with ExxonMobil this semester. She has made her presence known on campus and intends to do the same in the workforce.



Sopuluchukwu "Sopulu" Anidobu University of Michigan, Class of 2021, Undeclared

The summer before Sopulu's junior year in high school, she was thrilled to attend a STEM Camp at Prairie State College. She had the chance to spend six weeks participating in classroom discussions, group projects, labs and field trips that revolved

around STEM topics. Sopulu knows that becoming a doctor will take hard work in the classroom, but she also has a deep understanding of the value of hands-on experience. She has successfully completed her first semester of college, earning a spot in the Dean's Honors List in the College of Language, Arts and Sciences. She hopes to continue solidifying her path towards becoming a doctor.



Angelica Rose Galvan

University of Michigan, Class of 2020, Undeclared

Angelica arrived to Michigan with an unrivaled love for STEM that quickly made its mark on campus. After her first year she received funding to stay in Ann Arbor to conduct research through the Undergraduate Research Opportunities Program

(UROP) and the Intel Semiconductor Research Fellowship. She worked closely with a professor to optimize the manufacturing of a polymer scaffold conduit used for nerve repair, committing herself to her daily research from 8am-4pm. The experience sealed her love for the lab and encouraged her to work on getting her findings published.



Damien OutarUniversity of Wisconsin-Madison, Class of 2018, Electrical Engineering

Damien is currently pursuing a degree in electrical engineering. He is a part of UW's Cooperative Education Program, where he has received a real-world, full-time, competitively paid engineering

work assignment under the supervision of an engineer. Damien has a deep commitment to education, instilled in him by parents who immigrated to the United States from Guyana. He has served as a student leader in the UW's STEM Ambassador Initiative, a program that seeks to increase levels of retention and graduation of STEM students from underrepresented backgrounds. He has also worked as a student assistant for first-year engineering design classes, supporting students as they conceive, design and implement a product, which is then presented to a client. Damien's dream is to build robots that increase the precision and success rate of surgical procedures.



Rizza Pineda University of Wisconsin-Madison, Class of 2019, Biology

As someone who commuted 90 minutes each way to high school and used that time to study, Rizza understands the commitment required to excel in STEM. Now a junior at UW, Rizza thrives when she is challenged, and plans to complete a biology major

on a pre-medical track. Building on this vision, she began work in the Paskewitz entomology lab on campus, and segued that opportunity into a paid position for the academic year. In June, Rizza anticipates participating in either the Summer Internship Program at Johns Hopkins University or a newly piloted health professional mentoring program managed by UW's Center for Pre-Health Advising.



Shania Baldwin

Wellesley College, Class of 2021, Undeclared

Within the first weeks of arriving on campus, Shania ran for and was elected co-president of her class at Wellesley. She and her running mate ran on a ticket of inclusivity, emphasizing that every woman at Wellesley has a voice. Shania makes a

point to model this philosophy. She tries to be a leader wherever possible, whether in the classroom, in her Posse meetings, or as a member of a Wellesley acapella group where she strives to use her voice for positive social change.



Kimberly Hernandez
Wellesley College, Class of 2021, Undeclared

After one semester on campus, Kimberly has made a name for herself in classes with her curiosity and drive. She has made a point to explore all that Wellesley and the neighboring campuses have to offer. She has connected with the engineering

community at MIT and is now a member of their Society of Hispanic Professionals in Engineering. Kimberly takes every opportunity to further her knowledge by finding online workshops and webinars to attend in her free time. She was recently invited to attend a Latina conference at Harvard this spring.





Nicholas Medina

Brandeis University, Class of 2014 Doctoral Candidate, Rackham Merit Fellowship, University of Michigan

Nicholas Medina attended Brandeis University as part of the first STEM Posse. He graduated with a double major in biology and environmental studies.

A New York City native,

Nicholas' interest in biology began in seventh grade when a science teacher's enthusiasm captured his curiosity. He continued to study science throughout high school and was nominated for the Posse program by his AP biology teacher.

Nicholas credits his success at Brandeis to the support he received from Posse.

"Faculty and administrators, including Katie Cousins, Kim Godsoe, Melissa Kosinski-Collins, and Irv Epstein, were vital to our growth and development as scientists," he says. "They offered personal encouragement, sent out research and summer opportunities, and wrote letters of recommendation. Such guidance was critical when many of us were unsure of what career we wanted to pursue."

As a student, Nicholas was awarded a Gilman Scholarship to study sustainability in Panama and funding from the Brandeis Hiatt Career Center to conduct climate change research in Costa Rica.

"My Posse and our mentor, trainers and liaisons were all critical to the way my college experience developed, both in the sciences and in my personal academic growth," he says.

Nicholas has now earned the Rackham Merit Fellowship at the University of Michigan and is a Ph.D. pre-candidate in ecology and evolutionary biology. His research focuses on soil ecology in agricultural environments.

In addition, Nicholas recently completed a master's thesis in Michigan's Frontiers Program on the future of nutrient recycling in forests. He has presented his findings at academic conferences hosted by the Ecological Society of America and the American Geophysical Union.

"Research is what I want to do with my life," says Nicholas. "I like the idea of answering hard scientific questions and creating new knowledge on topics such as climate change."



Gloriya Nedler

Brandeis University, Class of 2012 Doctor of Medicine Candidate, Technion-Rappaport Faculty of Medicine

Gloriya Nedler is a Fulbright Scholar and a current M.D. candidate at the Technion-Rappaport Faculty of Medicine in Israel. She is a member of the first STEM Posse at Brandeis University.

At Brandeis, Gloriya founded the

school's chapter of the Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) and the Autism Art Gala. She was campus liaison for Autism Speaks and served as president of the Pre-Health Society and as a member of the Emergency Medical Corps.

"Having the support of professors, mentors and the many others committed to the Posse STEM Program was key to solidifying my commitment to science," says Gloriya. "It helped lay the groundwork for my medical career."

Gloriya graduated with a B.S. in biology, going on to serve as a patient experience specialist at Memorial Sloan Kettering Cancer Center and director of the Languages in Healthcare Project at the AES World Languages and Cultures Institute, which empowers patients, providers and administrators in ESL communities. She has volunteered at the Hole in the Wall Gang camp and participated in the Harvard Business School Summer Venture in Management Program.

Gloriya was awarded a Fulbright Fellowship to study local healthcare administration in Eastern Europe. She hopes to apply that experience to her medical studies and future career.

"As the first person in my family to attend college, the Posse STEM Program embodied the American Dream that my parents sought for their children when immigrating to the U.S. from the Ukraine," says Gloriya. "There is no one path to a successful career in the sciences. There is no end to the success that can be achieved with the gracious support of Posse."



Dr. Nana D. SarpongBrandeis University, Class of 2012
Orthopedic Surgery Resident,
Columbia University Medical Center

Dr. Nana O. Sarpong is a graduate of Tufts University School of Medicine and the Heller School for Social Policy and Management at Brandeis University. He is a member of the first STEM Posse at Brandeis.

Nana emigrated from Ghana to New York City at the age of seven with his mother, older sister and younger brother. An early focus on science led Nana to Life Sciences Secondary School, a small charter high school in Manhattan.

"During my junior year of high school I had an internship at Mount Sinai Hospital, which sparked my interest in medicine," says Nana.

A guidance counselor nominated Nana for the Posse Scholarship, and he was selected to be part of the inaugural class of the STEM program at Brandeis. Although the curriculum was challenging and the academic environment very competitive, Nana earned the high grades needed to gain admission to a first-rate medical school.

"I studied with kids from my Posse, especially during the first two years," says Nana. "It was a great support system."

To gain additional experience, Nana secured a summer fellowship in Ghana with Unite for Sight and a grant for a research project at the Brandeis University Agar Lab.

Nana was accepted into the highly selective Tufts Early Assurance Program as a sophomore at Brandeis, guaranteeing admission to Tufts upon successful completion of his undergraduate degree. He graduated magna cum laude with a bachelor's degree in biology and went on to earn a master's in business administration from the Heller School.

"I think a physician needs to be well versed in business and medicine," says Nana. "Hospital administration is integral to the process of providing medical attention to patients, and the need for leaders who are firmly grounded in both medicine and business has never been greater."

Nana graduated at the top of his medical school class and was inducted into the Alpha Omega Alpha Honor Society, which recognizes high academic achievement, humanistic ideals, and service to others. He is currently an orthopedic surgery resident at Columbia University Medical Center.



Carol Bowe
Bryn Mawr College, Class of 2017
Master of Education Candidate,
Woodrow Wilson Teaching Fellowship

Carol Bowe graduated cum laude from Bryn Mawr College in 2017, with a degree in physics. She is a member of the first STEM Posse at Bryn Mawr.

"Neither of my parents attended college, and I always knew that to attend myself

I would have to get a scholarship," says Carol. "Since the moment I got the phone call saying I would be a STEM Posse Scholar, I have felt extremely blessed."

During her time at Bryn Mawr, Carol worked at the Quantitative Center tutoring students in calculus, multivariable calculus and physics. She also was a student researcher at the Spectroscopy Lab, collecting data about the long-range states of molecular hydrogen.

Carol spent time as an intern at Biogen Idec. in Cambridge, teaching lab techniques to middle school and high school students. She is especially proud of designing and facilitating a bioethics workshop for that group.

"I was afraid to go away to school, but being part of a Posse made it much easier," says Carol. "I have two siblings at home, and although I had to leave them, my Posse became new family."

Carol was awarded a Woodrow Wilson Teaching Fellowship, committing to teach high school physics in a high-need community while pursuing a master's degree in teaching.

"Women are so underrepresented in the sciences and it often feels like you are alone," she says. "Being part of a Posse of other women who are striving to go into science fields, who are passionate about science and math, has been so important. We are not going to let anything get in our way."



Carolina Giraldo

Franklin & Marshall College, Class of 2016 Research Specialist, University of Pennsylvania

Carolina Giraldo graduated from Franklin & Marshall College (F&M) in 2016 with a degree in biochemistry and molecular biology. She is a member of the first STEM Posse at F&M.

Carolina's family immigrated from

Colombia to Miami when she was seven years old. She attended Maritime and Science Technology Academy, where she learned about Posse and won a four-year full-tuition scholarship to F&M.

An extra support network turned out to be critical when Carolina's father unexpectedly passed away during her freshman year.

"Posse was there for me when I needed it the most," she says. "They all stepped up to the plate and made sure my family and I were cared for. Along with the resources and guidance offered by F&M, Posse was what kept me going through the hardest time of my life, sophomore and junior years."

Carolina persevered. While at F&M she earned a Leser Grant for biochemistry research, the Eric C. Rackow Achievement Scholarship for Pre-Health Students and the Margaret Eyler Award to the Outstanding Pre-Medical Female Student. She also participated in the Hackman Research Residency Program.

In addition to her achievements in STEM, Carolina was recognized as a Mid-Atlantic Rowing All-Conference athlete, as a class officer in Student Government and as a finalist for the Whitesell Prize for first-year seminar writing.

"My interest in science combined with the death of my dad drew me to medicine," she says. "I knew that I was willing to do everything in my power to save my dad's life. If I was willing to do this for him, why shouldn't I do it for someone else's loved one?"

She is now is a research specialist at the University of Pennsylvania, and is in the process of applying to medical school. Her success has served as inspiration for her brother, Luis, who also became an F&M Posse Scholar.

"My goal is to become a physician who can use her Hispanic heritage to connect underrepresented minorities to the healthcare they need," says Carolina. "None of these dreams would be possible without the help of Posse and Franklin & Marshall."



Marvin Nicoleau

Franklin & Marshall College, Class of 2016 Research Technologist, Penn State College of Medicine

Marvin Nicoleau graduated from Franklin & Marshall College (F&M) in 2016 with a bachelor's in biochemistry and molecular biology. He is a member of the first STEM Posse at F&M.

Marvin grew up in Miami and attended

Miami Norland High School where he was president of the Math Honor Society and on the Junior Council of the City of Miami Gardens. Marvin also participated in the High School Careers in Medicine Workshop at the University of Miami Miller School of Medicine the summer of his junior year.

"That was a solidifying moment in my decision to pursue a career in medicine," says Marvin.

After consulting with his college advisor on ways to pursue a career in science, he was nominated and eventually selected for the STEM Posse scholarship at F&M. Marvin received support from his Posse and Posse mentor, which helped him stay on track to apply to medical school.

"I knew I could always go to anyone in my Posse for advice," says Marvin. "All my undergraduate clinical and research experiences were a result of one-on-one sessions and advice from my Posse mentor."

At F&M, Marvin earned the American Physiological Society Excellence in Undergraduate Research Award, the Commonwealth Research Scholarship and participated in the Lancaster General Hospital Preceptorship program.

Marvin now works at Penn State College of Medicine in pediatric pulmonary immunology and physiology as a research technologist. His current project focuses on pediatric patients undergoing post-surgical systemic inflammation from cardiac bypass surgery.

An aspiring physician, Marvin is in the process of applying to medical school.



Mustafa Hussein
Texas A&M University, Class of 2017
Field Engineer, Halliburton Oilfield

Mustafa Hussein graduated from Texas A&M University cum laude with a B.S. in petroleum engineering. He is a member of the first STEM Posse at Texas A&M.

Mustafa and his family immigrated from Iraq to the United States

during his freshman year of high school. Settling in Houston, Texas, he attended Westside High School, where he was active as a member of the National Honor Society, Business Professionals of America and the Football Rugby Club. Mustafa also gained professional experience through Genesys Works, a high school internship program.

Services

His specific interest in petroleum engineering grew the summer after his first year at Texas A&M, during an internship for the Bristow Group, an oil and gas industry leader in transportation and support services. Mustafa went on to explore other professional experiences in the industry, including an internship with Shell.

While on campus, Mustafa became involved in the Society of Petroleum Engineers. He was inducted into two national honor societies, Phi Eta Sigma and the National Society of Collegiate Scholars. Mustafa also took advantage of Texas A&M's extensive study abroad program, spending time working and learning in Qatar.

Fluent in Arabic and proficient in Spanish, Mustafa's goal is to expand his skills further by earning an MBA, eventually becoming a leader in the gas and oil industry.

He is now a field engineer at Halliburton Oilfield Services.



Dirk Spencer

University of Wisconsin-Madison, Class of 2016 Doctoral Candidate, Stanford University

Dirk Spencer graduated from University of Wisconsin-Madison (UW) in 2016 with a bachelor's degree in molecular genetics. He is a member of the first STEM Posse at UW.

Dirk's interest in science began at the High School for Health Professions and Human Services in New York City, when

he began working in the Cell and Molecular Dynamics Lab at Columbia University. Dirk brought what he learned at Columbia back to his local Harlem Children's Society, eager to get other students interested in STEM studies.

As an undergraduate STEM Scholar at UW, Dirk excelled in the McNair Scholarship Program, a national initiative designed to prepare undergraduate students for doctoral studies. For multiple summers, he performed research at the Cancer Biology & Genetics program at Sloan-Kettering Institute. Dirk was also an active member of the campus community. Together with a fellow Posse Scholar, he co-founded STEM Outreach, a mentoring program dedicated to serving minority students in the surrounding area.

"Starting that organization was one of my proudest moments," Dirk says. "It was all about identifying an issue and then trying to help solve it in the community."

Dirk thought he disliked plant science until his freshman year at UW, when a botany professor showed him a video of a plant responding to physical damage. Dirk found the experience so inspiring that he has devoted his academic career to plant science. He is now a biology Ph.D. candidate at Stanford University.

At Stanford, Dirk concentrates on plant science but is also interested in broader biological issues. Of particular interest to him is understanding the processes by which organisms use information from the environment to produce observable responses—such as the way plants respond to seasonal changes or stressful conditions.

Dirk hopes to become a professor at a research university where he can teach and contribute to the field of botany.

Acoustics

Actuarial Science

Aeronautical/Aerospace Engineering Technology/Technician Aeronautics/Aviation/Aerospace Science and Technology, General

Aerospace Ground Equipment Technology Aerospace Physiology and Medicine

Aerospace, Aeronautical and Astronautical/Space Engineering

Agricultural and Horticultural Plant Breeding

Agricultural Animal Breeding Agricultural Engineering

Agroecology and Sustainable Agriculture

Agronomy and Crop Science

Air and Space Operational Art and Science Air and Space Operations Technology

Air Science/Airpower Studies

Aircraft Armament Systems Technology

Algebra and Number Theory Analysis and Functional Analysis

Analytical Chemistry

Anatomy

Animal Behavior and Ethology

Animal Genetics
Animal Health
Animal Nutrition
Animal Physiology
Animal Sciences, General
Animal Sciences, Other

Animation, Interactive Technology, Video Graphics and Special Effects

Applied Mathematics, General Applied Mathematics, Other Aquatic Biology/Limnology

Archeology

Architectural and Building Sciences/Technology Architectural Drafting and Architectural CAD/CADD

Architectural Engineering

Architectural Engineering Technology/Technician

Artificial Intelligence

Astronomy

Astronomy and Astrophysics, Other

Astrophysics

Atmospheric Chemistry and Climatology Atmospheric Physics and Dynamics

Atmospheric Sciences and Meteorology, General Atmospheric Sciences and Meteorology, Other

Atomic/Molecular Physics

Automation Engineer Technology/Technician Automotive Engineering Technology/Technician

Behavioral Sciences
Biochemical Engineering

Biochemistry

Biochemistry and Molecular Biology

Biochemistry, Biophysics and Molecular Biology, Other

Bioengineering and Biomedical Engineering

Bioinformatics

Biological and Biomedical Sciences, Other

Biological and Physical Sciences Biological/Biosystems Engineering Biology Technician/Biotechnology Laboratory Technician

Biology/Biological Sciences, General

Biomathematics, Bioinformatics, and Computational Biology, Other

Biomedical Sciences, General Biomedical Technology/Technician

Biometry/Biometrics

Biophysics
Biopsychology
Biostatistics
Biotechnology
Botany/Plant Biology
Botany/Plant Biology, Other
Business Statistics

CAD/CADD Drafting and/or Design Technology/Technician

Cardiovascular Science Cell Biology and Anatomy

Cell Physiology

Cell/Cellular and Molecular Biology

Cell/Cellular Biology and Anatomical Sciences, Other

Cell/Cellular Biology and Histology Ceramic Sciences and Engineering Chemical and Biomolecular Engineering

Chemical Engineering

Chemical Engineering Technology/Technician

Chemical Engineering, Other

Chemical Physics

Chemical Process Technology
Chemical Technology/Technician

Chemistry, General Chemistry, Other

Civil Drafting and Civil Engineering CAD/CADD Civil Engineering Technology/Technician

Civil Engineering, General Civil Engineering, Other

Clinical and Industrial Drug Development

Clinical Laboratory Science/Medical Technology/Technologist

Cognitive Psychology and Psycholinguistics

Cognitive Science

Combat Systems Engineering

Command & Control (C3, C4I) Systems and Operations

Comparative Psychology

Computational and Applied Mathematics

Computational Biology Computational Mathematics Computational Science

Computer and Information Sciences, General Computer and Information Sciences, Other

Computer and Information Systems Security/Information Assurance

Computer Engineering Technologies/Technicians, Other

Computer Engineering Technology/Technician

Computer Engineering, General Computer Engineering, Other

Computer Graphics

Computer Hardware Engineering

Computer Hardware Technology/Technician

Computer Programming, Other

Computer Programming, Specific Applications

Computer Programming, Vendor/Product Certification

Computer Programming/Programmer, General

Computer Science

Computer Software and Media Applications, Other

Computer Software Engineering

Computer Software Technology/Technician

Computer Support Specialist Computer Systems Analysis/Analyst

Computer Systems Networking and Telecommunications Computer Technology/Computer Systems Technology Computer/Information Technology Services Administration

and Management, Other

Condensed Matter and Materials Physics

Conservation Biology
Construction Engineering

Construction Engineering Technology/Technician Cyber/Computer Forensics and Counterterrorism

Cyber/Electronic Operations and Warfare Cytotechnology/Cytotechnologist

Dairy Science

Data Modeling/Warehousing and Database Administration
Data Processing and Data Processing Technology/Technician

Developmental and Child Psychology Developmental Biology and Embryology Digital Communication and Media/Multimedia

Directed Energy Systems

Drafting and Design Technology/Technician, General

Drafting/Design Engineering Technologies/Technicians, Other

Ecology

Ecology and Evolutionary Biology

Ecology, Evolution, Systematics and Population Biology, Other

Econometrics and Quantitative Economics Educational Evaluation and Research Educational Statistics and Research Methods Educational/Instructional Technology

Electrical and Electronic Engineering Technologies/Technicians, Other

Electrical and Electronics Engineering

Electrical, Electronic and Communications Engineering Technology/Technician

Electrical, Electronics and Communications Engineering, Other Electrical/Electronics Drafting and Electrical/Electronics CAD/CADD

Electromechanical and Instrumentation and Maintenance Technologies/Technicians, Other

Electromechanical Engineering

Electromechanical Technology/Electromechanical Engineering Technology

Elementary Particle Physics

Endocrinology

Energy Management and Systems Technology/Technician

Engineering Acoustics Engineering Chemistry Engineering Design Engineering Mechanics

Engineering Physics/Applied Physics

Engineering Science

Engineering Technologies and Engineering-Related Fields, Other

Engineering Technology, General

Engineering, General Engineering, Other

Engineering/Industrial Management Engineering-Related Fields, Other Engineering-Related Technologies, Other

Entomology

Environmental Biology Environmental Chemistry

Environmental Control Technologies/Technicians, Other

Environmental Engineering Technology/Environmental Technology

Environmental Health Environmental Science Environmental Studies Environmental Toxicology

Environmental/Environmental Health Engineering

Epidemiology Evolutionary Biology Exercise Physiology Experimental Psychology

Explosive Ordinance/Bomb Disposal

Financial Mathematics

Food Science

Food Science and Technology, Other Food Technology and Processing

Forensic Chemistry

Forensic Science and Technology

Forest Engineering

Forest Sciences and Biology

Genetics, General Genetics, Other

Genome Sciences/Genomics

Geochemistry

Geochemistry and Petrology

Geographic Information Science and Cartography Geological and Earth Sciences/Geosciences, Other

Geological/Geophysical Engineering Geology/Earth Science, General Geometry/Geometric Analysis Geophysics and Seismology

Geotechnical and Geoenvironmental Engineering

Hazardous Materials Information Systems Technology/Technician Hazardous Materials Management and Waste Technology/Technician

Health/Medical Physics

 $Heating, Ventilation, Air Conditioning and \,Refrigeration\\$

Engineering Technology/Technician

Horticultural Science Human Biology

Human Computer Interaction Human/Medical Genetics

Hydraulics and Fluid Power Technology/Technician

Hydrology and Water Resources Science

Immunology

Industrial and Physical Pharmacy and Cosmetic Sciences

Industrial Engineering

Industrial Production Technologies/Technicians, Other

Industrial Radiologic Technology/Technician Industrial Safety Technology/Technician Industrial Technology/Technician

Informatics

Information Operations/Joint Information Operations

Information Science/Studies Information Technology

Information Technology Project Management

Information/Psychological Warfare and Military Media Relations

Inorganic Chemistry

Instrumentation Technology/Technician

Integrated Circuit Design

Intelligence, Command Control and Information Operations, Other

Intelligence, General

Joint Command/Task Force (C3, C4I) Systems

Laser and Optical Engineering

Laser and Optical Technology/Technician

Livestock Management

Low-Observables and Stealth Technology

Management Science

Management Science and Quantitative Methods, Other

Manufacturing Engineering

Manufacturing Engineering Technology/Technician

Marine Biology and Biological Oceanography

Marine Sciences
Materials Chemistry
Materials Engineering

Materials Engineering

Materials Sciences, Other Mathematical Biology

Mathematical Statistics and Probability Mathematics and Computer Science

Mathematics and Statistics
Mathematics and Statistics, Other

Mathematics, General Mathematics, Other

Mechanical Drafting and Mechanical Drafting CAD/CADD

Mechanical Engineering

Mechanical Engineering Related Technologies/Technicians, Other Mechanical Engineering/Mechanical Technology/Technician

Mechatronics, Robotics, and Automation Engineering

Medical Informatics

Medical Microbiology and Bacteriology

Medical Scientist

Medicinal and Pharmaceutical Chemistry

Metallurgical Engineering

Metallurgical Technology/Technician

Meteorology

Microbial and Eukaryotic Genetics

Microbiological Sciences and Immunology, Other

Microbiology and Immunology Microbiology, General

Military Applied Sciences, Other
Military Information Systems Technology

Military information Systems recimology

Military Systems and Maintenance Technology, Other Military Technologies and Applied Sciences, Other

Mining and Mineral Engineering

Mining and Petroleum Technologies/Technicians, Other

Mining Technology/Technician

Missile and Space Systems Technology

Modeling, Virtual Environments and Simulation

Molecular Biochemistry

Molecular Biology

Molecular Biophysics

Molecular Genetics

Molecular Medicine

Molecular Pharmacology

Molecular Physiology

Molecular Toxicology

Munitions Systems/Ordinance Technology

Mycology

Nanotechnology

Natural Products Chemistry and Pharmacognosy

Natural Resources Conservation and Research, Other

Natural Resources/Conservation, General

Natural Sciences

Naval Architecture and Marine Engineering

Naval Science and Operational Studies

Network and System Administration/Administrator

Neuroanatomy

Neurobiology and Anatomy Neurobiology and Behavior

Neurobiology and Benavior

 $\label{eq:neurosciences} \textbf{Neurosciences}, \textbf{Other}$

Neuropharmacology

Neuroscience

Nuclear and Industrial Radiologic Technologies/Technicians, Other

Nuclear Engineering

Nuclear Engineering Technology/Technician

Nuclear Physics

Nuclear/Nuclear Power Technology/Technician

Nutrition Sciences

Occupational Safety and Health Technology/Technician

Ocean Engineering

Oceanography, Chemical and Physical

Oncology and Cancer Biology Operational Oceanography Operations Research

Optics/Optical Sciences Organic Chemistry Packaging Science

Paleontology

Paper Science and Engineering

Parasitology

Pathology/Experimental Pathology

Personality Psychology Petroleum Engineering

Petroleum Technology/Technician

Pharmaceutical Sciences
Pharmaceutics and Drug Design

Pharmacoeconomics/Pharmaceutical Economics

Pharmacology

Pharmacology and Toxicology Pharmacology and Toxicology, Other

Photobiology Physical Chemistry

Physical Science Technologies/Technicians, Other

Physical Sciences Physical Sciences, Other

Physics, General

Physics, Other

Physiological Psychology/Psychobiology

Physiology, General

Physiology, Pathology, and Related Sciences, Other

Planetary Astronomy and Science

Plant Genetics

Plant Molecular Biology

Plant Pathology/Phytopathology

Plant Physiology

Plant Protection and Integrated Pest Management

Plant Sciences, General

Plant Sciences, Other

Plasma and High-Temperature Physics

Plastics and Polymer Engineering Technology/Technician

Polymer Chemistry

Polymer/Plastics Engineering

Population Biology

Poultry Science

Pre-Engineering

Psychometrics and Quantitative Psychology

Psychopharmacology

Quality Control and Safety Technologies/Technicians, Other

Quality Control Technology/Technician

Radar Communications and Systems Technology

Radiation Biology/Radiobiology

Range Science and Management

Reproductive Biology

Research and Experimental Psychology, Other

Robotics Technology/Technician

Science Technologies/Technicians, General

Science Technologies/Technicians, Other

Semiconductor Manufacturing Technology

Signal/Geospatial Intelligence

Social Psychology

Soil Chemistry and Physics

Soil Microbiology

Soil Science and Agronomy, General

Soil Sciences, Other

Solar Energy Technology/Technician

Space Systems Operations

Statistics, General

Statistics, Other

Strategic Intelligence

Structural Biology

Structural Engineering

Surveying Engineering

Surveying Technology/Surveying

Sustainability Studies

System, Networking, and LAN/WAN Management/Manager

Systematic Biology/Biological Systematics

Systems Engineering

Systems Science and Theory

Telecommunications Technology/Technician

Telecommunications Engineering

Textile Sciences and Engineering

Theoretical and Mathematical Physics

Theoretical Chemistry

Topology and Foundations

Toxicology

Transportation and Highway Engineering

Undersea Warfare

Urban Forestry

Veterinary Anatomy

Veterinary Infectious Diseases

Veterinary Microbiology and Immunobiology

Veterinary Pathology and Pathobiology

Veterinary Physiology

Veterinary Preventive Medicine Epidemiology and Public Health

Veterinary Toxicology and Pharmacology

Virology

Vision Science/Physiological Optics

Water Quality and Wastewater Treatment Management and Recycling

Technology/Technician

Water Resources Engineering

Water, Wetlands, and Marine Resources Management

Web Page, Digital/Multimedia and Information Resources Design

Web/Multimedia Management and Webmaster

Welding Engineering Technology/Technician

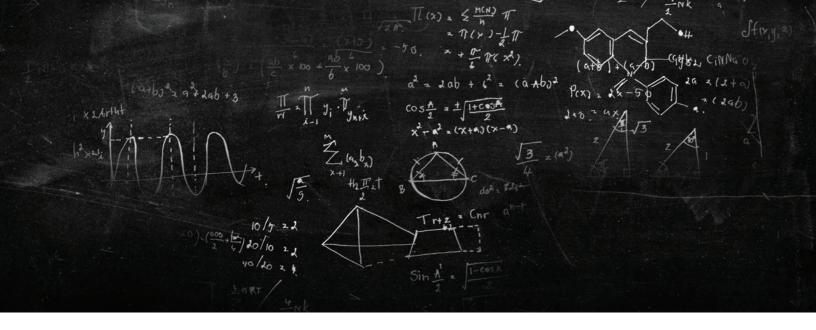
Wildlife Biology

Wildlife, Fish and Wildlands Science and Management

Wood Science and Wood Products/Pulp and Paper Technology

Zoology/Animal Biology

Zoology/Animal Biology, Other



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