PRIMES

MIT PROGRAM FOR RESEARCH IN MATHEMATICS, ENGINEERING, AND SCIENCE
FOR HIGH SCHOOL STUDENTS (WEB.MIT.EDU/PRIMES)

CUMULATIVE REPORT

PRIMES students at the Eighth Annual PRIMES conference at MIT, May 2018

MIT PRIMES is a free, year-long after-school research program for high school students, offering projects in mathematics, computer science, and computational biology. This is the only program in the United States that gives students an opportunity to pursue serious research in a university setting at a natural pace, over the period of one year, under the guidance of academic mentors.

- In 2011-2018, 276 research projects completed by PRIMES students;
- All projects presented at eight annual PRIMES conferences;
- 12 students received Outstanding Presentation awards at MAA Undergraduate Student Poster sessions of Joint Mathematics Meetings;
- 1st, two 3rd, and two 4th Grand Awards at Intel International Science and Engineering Fair;
- 1st Prize ($100K scholarship), four 2nd Prizes ($50K), two 4th Prizes ($30K), two 5th Prizes ($20K), two national finalists ($25K), 28 regional finalists, and 57 semifinalists in the Siemens Competition in Math, Science & Technology;
- 1st Place ($150K), three 2nd Places ($75K/$175K), two 3rd Places ($35K/$50K), 4th Place ($40K), 6th Place ($80K), 7th Place ($70K), 10th Place ($20K), 17 national finalists, and 66 national semifinalists/scholars in Intel/Regeneron Science Talent Search;
- 4 Davidson Fellow Laureates ($50K), 6 Davidson fellows ($25K/10K), and 3 honorable mentions.
Currently 55 local PRIMES students are working on individual and group research projects and studying in reading groups in mathematics, computer science, and physical and computational biology. PRIMES-USA, a distance-mentoring research section for out-of-state students, has expanded to 21 students. We have established partnerships with CUNY – City College, Penn State, the University of Illinois at Chicago, UMass Amherst, UMass Lowell, and MathWorks, which provide projects for several PRIMES students. PRIMES Circle, a math enrichment section for students with disadvantaged backgrounds from local high schools, has 14 students (86% female; 14% African-American; 14% Hispanic). The total number of students has reached 90, including 20 girls.

PRIMES Circle students making an expository presentation at MIT, May 2017

SPONSORS

PRIMES acknowledges generous support from MIT Mathematics Department, MIT EECS Department, National Science Foundation, Quanta Computer, MathWorks, EHA Foundation, Webster Foundation, Hamilton Foundation, Rosenbaum Foundation, and individual sponsors. PRIMES is currently seeking funding for the 2019 cycle from sources both within and outside MIT. Please contact PRIMES Program Director Dr. Slava Gerovitch at <primes@math.mit.edu>.

PROGRAM COORDINATORS

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