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**Reimi Hicks\***, Reimi Hicks, 77 Massachusetts Avenue, E17-139, Cambridge, MA 02139, and **Eboney Hearn** and **Kristin Kurianski**. *Prepare and Inspire: Broadening participation in STEM through outreach programs for pre-college students at MIT.*

This presentation will provide an overview of a proven model for broadening participation of students from historically underrepresented backgrounds in STEM fields. For 45 years, the MIT Office of Engineering Outreach Programs (OEOP), housed in the School of Engineering, has offered highly motivated and diverse precollege students — 4,400 and counting — opportunities to pursue their passion for STEM at MIT. The OEOP provides students challenging learning environments with high expectations, an innovative hands-on curriculum that strengthens their foundational skills in STEM, and access to positive role models in STEM. The OEOP offers three programs, (residential, online, and Saturdays-only), free-of-charge, which serve approximately 335 students, annually. OEOP programs have proven to influence college application and enrollment behavior, as well as, choice of college major and aspirations for careers in STEM. As supporting the academic success of students goes beyond what happens in the classroom, this talk will explore the importance of intentional strategies for recruitment, selection, staffing/mentoring, and community building in programs that serve students from underrepresented and underserved backgrounds. (Received September 17, 2019)