



Center for Minorities in Science and Engineering

Fall 2002

A. James Clark School of Engineering

Established in 1981 as a unit within the School of Engineering, The Center for Minorities in Science and Engineering is dedicated to increasing the participation and graduation rates of African American, Hispanic/Latino and Native American students in engineering. At present 9.7 percent of all undergraduate students are African Americans, 4 percent Hispanic Americans, and 0.1 percent Native Americans; and 19.2 percent are female.

Retention Programs and Activities

Advising. Through special retention programs, CMSE staff assist students with course selection, provide personal counseling and advice; and regularly track the academic progress of minority students in engineering.

Scholarships, Internships and Undergraduate Research Experiences. CMSE serves as a major source of information on scholarships, internships and undergraduate research opportunities.

Alumni Reception/Student Awards Banquet. This event encourages academic excellence and promotes retention of minority engineering students by recognizing graduating seniors and those students who have earned 3.0 or higher grade point averages.

Support of Student Organizations. CMSE provides support and guidance to the campus chapters of the National Society of Black Engineers (NSBE) and the Society of Hispanic Professional Engineers (SHPE).



Graduation, December 2001

LSAMP PROGRAMS

The Louis Stokes Alliance for Minority Participation (LSAMP) Program is designed to assist students in developing the skills and learning the strategies that will guarantee their success in the fields of Science, Technology,

Engineering, and Mathematics. The Center for Minorities in Science and Engineering of the Clark School of Engineering and the College of Computer, Mathematical, and Physical Sciences at the University of Maryland College Park share this grant with the University of Maryland Baltimore County and the University of Maryland Eastern Shore. As a result of this funding students who attend the University of Maryland College Park benefit from a unique combination of academic, financial, and social support systems.

BRIDGE Program for Scientists and Engineers. Each year a group of 30 African American, Hispanic and Native American students in engineering and the College of Computer, Mathematical and the Physical Sciences are invited to begin their freshman year with a six-week summer program that offers them an opportunity to get a head start in their Math, English and Computer Science courses. During the academic year students receive mandatory advising and participate in special activities designed to enhance their retention, promote academic excellence and expose them to internship and undergraduate research opportunities.

Math Bridge Program. This is a semester-long program offered to incoming freshmen designed to provide academic support and advising for students registered in pre-calculus. Students who participate in Math Bridge have an opportunity to improve their understanding of critical mathematical concepts while strengthening their mathematical skills. This program builds a foundation for success in the calculus courses that are required for all science, mathematical, engineering, and technical degree programs.

LSAMP Scholarship Program. Through LSAMP, the National Science Foundation awards students scholarships each academic year. To be eligible for these scholarships a student must be a full time student at the University of Maryland majoring in engineering, computer science, mathematics or the physical sciences. Scholarship recipients must be willing to participate in service learning opportunities that promote the recruitment and success of underserved populations (African American, Hispanic American and Native American) in science, engineering and mathematics. Selection is based upon financial need and merit.

TOP 26 UNDERGRADUATE ENGINEERING PROGRAMS RANKED BY DEGREES AWARDED TO AFRICAN AND HISPANIC AMERICAN STUDENTS

INSTITUTIONS	AFRICAN AMERICAN			HISPANIC AMERICAN			US NEWS RANK
	BLACK ISSUES RANK	#	%	BLACK ISSUES RANK	#	%	
Georgia Institute of Technology	2	107	9.2	24	35	3.0	6
University of Michigan-Ann Arbor	8	60	5.8	20	39	3.8	7
University of Maryland-College Park	11	51	11.1	60	14	3.1	24
Massachusetts Inst of Technology	14	43	8.6	12	51	10.2	1
Virginia Polytechnic Institute	22	28	2.9	44	21	2.2	15
Texas A&M University – College Station	24	26	2.9	5	83	9.3	15
University of Illinois at Urbana-Champaign	24	26	2.4	27	31	2.8	3
University of Texas-Austin	30	23	3.1	3	87	11.7	10
Rensselaer Polytechnic Institute	31	22	4.0	40	24	4.4	15
Purdue University	37	20	1.9	54	16	1.5	10
Pennsylvania State University	40	19	1.6	44	21	2.2	15
Stanford University	49	16	7.0	35	27	11.8	2
University of California-LA	54	14	3.3	27	31	7.3	20
California Institute of Technology							3
University of California-Berkeley				20	39	5.2	3
Carnegie Mellon University							7
Cornell University				47	19	3.8	7
Princeton University							12
University of Wisconsin-Madison							12
Northwestern University							14
Johns Hopkins University							15
University of Minnesota-Twin Cities							20
Rice University							20
University of Washington				58	15	2.6	20
Duke University							24
University of California-San Diego				33	28	8.8	24

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Pre-Professional Student Organiza-
tions

Black Engineers Society
301 405-3877
Society of Hispanic
Professional Engineers
301 405-6641

Source: Black Issues in Higher Education, 2002 Analysis of U.S. Department of Education Reports of Data Submitted by Institutions. Rankings are Based on the Review of 2000-2001 Preliminary Data US News and World Report, 2003 Rankings of Best Undergraduate Engineering Programs at Schools with Ph.D. Programs