

Sloan Guide

For the Successful Recruitment of Minority Students into Science and Engineering PhD Programs

Dwight Lewis

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HOW TO USE THE GUIDE

Improving recruitment of underrepresented doctoral students is crucial to increasing the number of doctoral graduates in the sciences, engineering, and mathematics. The strategies proposed in this guide will enable Sloan faculties and others to recruit the best-underrepresented students into their programs.

These recruitment strategies utilize faculties, staffs, and graduate students as recruiters and concentrate on the advantages of having outstanding research programs with excellent faculty members. The faculty or staff recruiter can visit institutions where significant numbers of African-American, Hispanic, and Native American students are enrolled. A direct mailing campaign can take place before or after the faculty or staff member visits the campus. Additionally, once you have identified the prospective students, you can invite the students to visit your campus to learn more about the programs you offered.

This guide provides contacts the Sloan faculty can write to and visit in order to set up partnerships, as well as lists of the leading baccalaureate campuses, key conferences and fairs for recruiting, and pipeline programs that serve thousands of students who are training for PhD programs.

The guide will do the following for readers:

- Provide a recruitment plan for Sloan faculty
- Show how to organize a successful student visitation program on your campus
- Explain how to arrange a recruitment trip that will achieve your goals
- Give key points about utilizing websites for recruitment purposes
- Show how to recruit with a limited budget and staff
- Emphasize the importance of the admission process in achieving recruitment goals
- Locate prospective students and their current schools
- Show which undergraduate schools have produced the most PhDs
- List the major organizations, fairs, and conferences
- Provide a list of the program directors are for McNair, MARC/MBRS, IMSD, Sloan Feeder, NSF (LSAMP/AGEP), and HBCU-UP

The guide is intended as a reference manual for faculty and recruiters in search of graduate students in the areas of science, engineering and mathematics. Some of the names or programs may have changed before the guide reaches the intended faculty. I welcome comments and suggestions on how to improve this manual. Please send them to:

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SLOAN GUIDE

Section I A Recruitment Process: A Plan for SLOAN Faculty

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- 3. PLANNING
- 4. SEARCH FOR PROSPECTS
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- 6. OVERCOMING OBSTACLES
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- 8. MAINTAINING COMMITMENTS & STRENGHTENING RELATIONSHIPS WITH FEEDER SCHOOLS
- 9. POST-CONTACT ANALYSIS

1. FACEBOOK



The Business Week¹ writer Alison Damast wrote an article on line September 28, 2008 about universities using Facebook to find applicants. Back in the summer, Steven Price logged on to his Facebook page one evening to do his usual check-in with family and friends before going to bed. He was surprised when he found a "friend" request from Scott Minto, the director of the admissions office at San Diego State University's Sports Management Program sitting in his in-box. "I was blown away," said Price, 22, a recent college graduate who is applying to business schools this fall.

Mr. Minto is part of a small but growing number of graduate school recruiters who are using Facebook to recruit students for their programs. Many have built their own Facebook pages, which they are using as a tool to display videos, pictures and news articles about their universities. "College and graduate school admissions officers are on the cutting edge of this," said Nora Ganim Barnes, director for the Center for Marketing Research at the University of Massachusetts-Dartmouth, who recently conducted a study that found 29% of university departments surveyed used social networking sites such as Facebook and MySpace.

San Diego State's Facebook page is filled with pictures and videos of campus events. The community of applicants interested in the program online has become so active that he communicates with some of them now exclusively on Facebook. The number of schools diving into social networking sites like Facebook is still small with only about 60 schools that currently have official sites on Facebook.

¹ Alison Damast, "The Admissions Office Finds Facebook", *BusinessWeek*, (September 28, 2008). See references.

2. PREPARATION

There is a new way to approach students through social networking websites, such as Facebook, Twitter, and Myspace, to help with effective recruitment. By maximizing application practices these websites provide, you can successfully attract prospective students, share information about your graduate programs, and communicate with students in an easy and timely manner.

- Facebook is a free-access social networking website operating by Facebook, Inc.
 As of today, 200 million active users utilize Facebook everyday to keep up with
 friends, upload an unlimited number of photos, share links and videos, and learn
 more about the people they meet. Its mission is "to give people the power to share
 and make the world more open and connected".
- 2. Twitter is a free social networking and micro-blogging service that enables users to send and read other users' updates known as tweets. Users can send and receive tweets via the Twitter website, Short Message Service, SMS, or external application.
- 3. MySpace is a social networking website with an interactive, user-submitted network of friends, personal profiles, blogs, groups, photos, music, and videos for teenagers and adults internationally.
- 4. Text messaging or texting is the common term for the sending of short text messages from mobile phones using the Short Message Service, SMS. It is available on most digital mobile phones and some personal digital assistants with on-board wireless telecommunications.

A. Getting Started

1. Facebook

- It is free and easy to create a Facebook account on the Facebook homepage. You can simply type your full name, email address, password, sex, and birthday to sign up. Besides individual accounts, there is a link to create a page for businesses or organizations.
- In order to create a group on Facebook, it is required to provide information about name, description, type, recent news, office and email address of the group. After successfully creating a site, administrators of the site can provide information on the wall, discussion board, and add videos. Interested students can easily join the group and share with their friends as well.

2. Twitter

By clicking a green Get Started Now button on the Twitter website, you can create an account with your full name, username, password, and email address. On your twitter message or tweets, you can declare what you are doing right now, post a link, express an opinion or post a question. You can find people or organizations in order to receive their updates and tweets. You can also update and receive tweets on your mobile phone.

3. PLANNING

Establish <u>working objectives</u> (e.g., the number of contacts to be made with prospective students each week/month, the number of applications to be sent to/received from prospective students each week/month, etc.).

Develop a strategy for accomplishing each of your objectives (appointments, activity schedule, and preparation).

Establish a target date for each objective.

4. SEARCH FOR PROSPECTS

Keep in mind that every inquiry is a potential new student.

Establish a prospect file and refer to it often to ensure contact is made with each prospect.

Your present students are good sources for new students. Use them.

Stay in touch with colleagues at other universities to obtain referrals.

5. CONTACT

This part of the recruiting cycle refers to your initial approach. The purpose is to capture and hold your prospect's attention.

Carefully plan initial contact with all prospects in order to get them further interested in your program.

The more prospects know about your university and your particular department, the greater the opportunity to recruit them.

The more you, as a recruiter, know about your university and your department, the better prepared you will be to convey to prospective students what you have to offer.

Be able to discuss the following topics.

- The history and philosophy of your university and your department
- The academic image of both
- Your department's curricula
- · Tuition costs and financial aid
- The track record of minority students in your department
- Support systems that are in place (faculty and staff)
- Extra- and co-curricular activities/opportunities
- The campus climate and surrounding community

6. OVERCOMING CONCERNS AND DOUBTS

A concern is a reason a prospect may give for not wanting to apply to a university or even listen to what you have to say.

Concerns and doubts may be raised at any time in the recruitment process, so it is crucial to <u>plan ahead</u>. Most objections will relate to tuition, location, curricula, and social life.

Advance planning can help you handle such questions successfully. Anticipate possible answers.

Talk to recent alumni and then prepare a list of possible concerns.

Prepare a list of various ideas and solutions.

7. OBTAINING COMMITMENTS

Everything you do relative to recruiting graduate students is aimed at getting commitments from your prospects to attend your institution.

Project a positive attitude and let your prospects feel confident that you will do the best you can for each of them.

Demonstrate your <u>sincere</u> interest in each of your prospects. Remember "Trust" is an important aspect of recruitment. Encourage the students to get advanced training even if they decide to attend another institution.

8. MAINTAINING COMMITMENTS & STRENGTHENING RELATIONSHIPS WITH FEEDER SCHOOLS

After securing a commitment, follow up at regular intervals to ensure that the commitment is maintained. Remember, prospects become students only when they register. Until that happens, they are still anyone's prospects!

Develop a schedule for checking on your committed prospects. Communicate by letter, phone, or e-mail to make certain everything is in order. Check to see if there are any new needs or questions. Send your prospects all relevant new information and encourage them to contact you. Be sure they know that you are available and how to get in touch with you.

A. Strengthening Relationships with Feeder Schools

As the Sloan PI, you need to develop and maintain a productive relationship with those schools from which your school traditionally draws students – its feeder schools. Feeder schools can provide a steady, almost dependable, source of new students for

your school. Strengthen your relationships where they exist – and where they do not, develop them.

There are advantages to having a portion of each year's new students come from familiar programs. Your faculty has had experience teaching graduates of the feeder school(s). They know what types of background knowledge, skills, and experiences the students bring. The graduates are likely to have positive experiences on your campus. When several students come together from the same feeder school, they already have friends in their class at the new school.

B. Evaluate Your Current Relationship

Make sure to maintain and evaluate your records for the last three-to-five years. Look for certain patterns of which schools you consistently recruit new students from. Communicate with your faculties and staffs regarding their experience with helping the new students in their first year at your school and their perception of how students have changed academically and socially through participating in your program. Talk with the new students as well as their parents to share their point of views of same questions asked to faculty members.

Once you have gathered your data, develop an <u>action plan</u> to remove barriers and enhance relations with your "partner" schools.

Consider the following strategies and decide which ones you want to implement for the coming admission season.

C. Specific Strategies at the Feeder School

- With the permission of the Head of the feeder school, visit the feeder school and meet with the students.
- Make sure the feeder school's administration has copies of your recruitment brochure and other pertinent information.
- Develop a positive relationship with the professors' of the feeder school's oldest students. Acquaint them with your school and its programs.
- Put the Head Department and faculty of the feeder school on the mailing list to receive your newsletters and other publications.

D. Specific Strategies at Your School

- Invite the Head of the feeder school to visit your school, take a tour, and meet the professors and Department.
- Visitation program invite students to campus.
- Make sure that all information about your summer program is available to the students.

No matter how productive your school's current relationship with its feeder schools may be, maintaining and improving it will require consistent and overt attention. You can expect the feeder school to welcome your interest and be willing to work with you, mutually building stronger bonds between your two schools.

9. POST-CONTACT ANALYSIS

It is important that all recruiters continually assess their performance. Only in this manner can procedures be implemented to improve the recruitment process.

After every recruitment year, you should ask the following questions:

- What did you do right?
- What did you do wrong?
- What could you do better in the future?
- On which points did you waste your time?
- On which points should you have spent more time?
- What were the key points that secured commitments?
- Could you have established a better rapport? How?
- What objections were expressed?
- Did you overcome the objections effectively?
- What improvements do you feel you need to make?
- What reasons did your prospects give for not making a commitment?
- Were you awkward in approaching your prospects or in making your presentation?
- Did you ask for commitments or suggest action?

Section II Arranging and Executing a Successful Student Visitation Program

The visitation program will be one of the most successful activities you undertake. During a three-day visit, prospective students tour your campus facilities; receive a comprehensive view of departmental programs; and meet with faculty, administrators, and graduate students. Special programs, like the first orientation meeting, offer valuable networking opportunities for the visiting students. The departmental visit is the highlight of the three days, so every effort must be made to make the students feel comfortable during the departmental interviews.

The goals of the visitation program are to encourage undergraduate students to pursue graduate education, to showcase the educational opportunities available at your school, to establish ties between faculty and students on your campus and visiting students, and to increase your enrollment.

Another very important aspect of the visitation program is the selection of speakers who are invited to the campus to give a keynote speech on diversity and to address political and scholarly issues that are of special importance to underrepresented students. By inviting your current students to some of the activities, you help with their retention as they become involved with the recruitment process.

Aside from increasing your enrollment, an effective visitation program will also benefit your university by

- Increasing faculty awareness of the problems of underrepresented students,
- Building the self-esteem of visiting students by recognizing their accomplishments,
- Increasing graduation rates of minority students through mentoring and active encouragement, and
- Encouraging the support of many different offices to advance diversity on campus.

A few practical points to remember when arranging a visitation are listed below.

- If your university is located within 200 miles of several feeder institutions, the students could drive to your visitation program. However, if the distance is more than 200 miles, you must offer the students the opportunity to fly to your campus.
- The visitation works best during the regular school week, as opposed to the weekend. You want to give the visiting students a real impression of graduate student life and work.
- By housing the visiting students on campus within walking distance of departments, the students again achieve a real experience of the campus life.
- Remember when scheduling activities for the students, you should minimize "down time".

The visitation program must become an integral part of your university's continuing commitment to provide educational opportunities for underrepresented students. Experience has shown that the visitation program is the critical element in convincing students to enter your graduate program. In part, the program will be responsible for increasing both underrepresented student enrollment and the graduation rates of minority students. An important key to the success of the program is the active participation of individual departments in providing the students with a comprehensive view of their programs.

Section III Arranging a Recruitment Visit that will achieve Your Goals

An agenda of a faculty or staff recruitment visiting to a campus can vary greatly. Many faculties or staff recruiters schedule meetings with professors and students in their specific areas of interest, while faculty can also visit the academic departments to give research talks or seminars. During the visit, you should gain an appreciation of how that college or university, through its special programs, curricula, and other campus opportunities, prepares academically advanced students for graduate school.

In order to make the most of your visit, set up an interview schedule with the placement office before your visit. Interviews should start as early in the morning as possible. To ensure a spot for each participant, most Placement Offices request that students register well in advance of your visit.

Many times, your campus visit coincides with an academic or student recruitment fair. A number of these fairs are listed in Section IX. These fairs usually run from 9:00 a.m. to 4:00 p.m. Some have student information sessions, during which university administrators and staff answers questions on topics ranging from the application process to financial aid and fellowships. You could give a research talk or presentation to classes in Science and Engineering and at the end of the day, host an information session and serve pizza for all interested students.

Section IV Using the Internet for Recruiting

Recruiting top talent has always been an important objective for universities. The Internet, because of improved search engines, faster connections, and ease of use, has become the preferred avenue for students to look for graduate opportunities. Therefore, universities must have an effective Internet presence in order to find and attract the best student talents. The Internet has expanded the reach of recruiting programs, which often operate on limited budgets. Recruiting is no longer local—it has become global.

In order to recruit online, you must have a Website that will capture the attention of students. Students want to know what programs you offer, what the campus environment is, what the funding opportunities are, and where your graduates go after they finish their programs of study. All of these questions—and their answers—should be found on your Website. A Website also encourages students to establish a dialogue with you or your departments about available programs.

Many books on e-recruiting give examples of how to create or enhance your school's recruiting Web site, how to attract the best candidates and locate the passive ones, and how to assess your applicants. Although it takes some technical expertise, time, and money to establish and maintain a Website, the result is well worth the effort. The tools for creating Websites have greatly improved and have become easier to use. One of these software tools, Flash MX, can be used to create Websites that can deliver amazing graphics, video, and sound, and that communicate with databases.

At their current schools, most prospective graduate students have access to fast Internet connections that can handle more advanced Websites. They expect an attractive and state-of-the-art Website. They expect to be inspired, stimulated, and fully informed about the research opportunities at your institution. Your candidates want to read about cutting-edge ideas and research, presented with cutting-edge technology.

Look at the following Website for a few ideas on how to set up a great site.

http://kmgi.com/ss/home.html

Section V Recruiting with a Limited Budget and Staff

Identifying qualified students can be done on a limited budget. One way to do this is to request names from the Educational Testing Service (ETS). This service has a listing of diverse groups of students from all over the country. There is a fee to register and a small cost for each name, but the price is well worth the result. Another way to acquire names is to write directors of feeder programs for lists of potential candidates. Writing directly to campus departments usually yields low numbers of students, but if you establish a good contact with a department, you can sometimes increase that yield.

Once you have the names of potential recruits, you can call them or send e-mail. This is one way to make a vigorous appeal to impress them with the quality of your program. You must project a positive attitude about what your university has to offer.

Another important aspect of recruiting on a limited budget is to ensure you let departments on your campus know that you are working with them to recruit students of color. Let them know you are willing to assist them by contacting interested minority students. If they have contacts that they can pass on to you, they should feel free to do so.

Section VI The Model Admission Program

The admission decision is one of the most important campus tests of the recruitment process. Once you have a prospect's completed application in hand and it is ready to go to the admission committee, Phase Two of the process is ready to begin. The university, school, or departmental committee can now start working on admitting this applicant.

The admissions process can be a barrier. How quickly the review of the application takes place is important. How rapidly you complete the review helps the student, especially when they have applied to more than one school. When you can inform the prospecting students within two to three weeks after their application is complete, it gives the student leverage and your school a great advantage over your competition, because many institutions take six to eight weeks to get back to a student after the admission decision. When you have a slow response, you risk losing the student to another school.

Section VII Institutions that lead in sending their baccalaureates to Graduate School

When looking for graduate students I look in the NRC publications and NSF WebCASPAR database system. Each year they list the top producers listed below. These are the schools that send their undergraduates to graduate school and sequentially they have completed the PhD. These institutions are strong in science and engineering and liberal arts training.

Top PhDs Producers

Historically Black Colleges & Universities (HBCU)

Howard University
Spelman College
Hampton University
North Carolina A&T State University
Jackson State University
Florida A&M University
Southern University, Louisiana
Morgan State University
Morehouse College
Tennessee State University

Native American

University of Oklahoma Oklahoma State University of California Berkeley Northeastern State University University of New Mexico

Hispanic Serving Institution (HSI)

University of Puerto Rico- Rio Piedras University of Puerto Rico- Mayaguez The University of Texas at Austin University of California Berkeley Florida International University University of California- Los Angeles University of Texas at El Paso University of Arizona University of New Mexico Texas A&M University

Section VIII

Locating the Students: Where are they going to School for their Baccalaureate Degrees? The Top 100

Below is *Diverse Issues in Higher Education*'s list of the top 100 universities conferring degrees to minority students for the 2007 academic year. The data for this study come from the U.S. Department of Education.

African American Baccalaureate All Disciplines		Hispanic Baccalaureate All Disciplines	
Florida A&M University	1224	Florida International University	3092
Howard University	1067	The University of Texas- Pan American	1949
Southern University and A&M College	947	California State University-Los Angeles	1127
Tennessee State University	833	The University of Texas at San Antonio	1616
North Carolina A&T State University	887	The University of Texas at El Paso	1630
Jackson State University	748	California State University-Fullerton	1392
Georgia State University	1119	San Diego State University	1083
Hampton University	814	California State University-Northridge	1432
Temple University	918	The University of Texas at Austin	1148
Florida State University	931	California State University-Long Beach	1398
Prairie View A&M University	780	University of California-Los Angeles	1186
Morgan State University	699	University of Florida	1024
Chicago State University	646	University of New Mexico-Main Campus	1006
University of Maryland-College Park	640	California State University-Fresno	7946
Norfolk State University	619	University of Houston-University Park	750

Native American All Disciplines

Northeastern State University Oklahoma State University-Main	359
Campus	299
University of Oklahoma-Norman Campus	264
Northern Arizona University	157
Southeastern Oklahoma State University	182
Arizona State University-Main Campus	112
University of New Mexico-Main Campus	184
University of North Carolina at Pembroke	103
Fort Lewis College	101
East Central University	147
University of Arizona	81
University of Washington-Seattle	
Campus	75

University of Central Oklahoma	106
Western Washington University	72

Biological and Life Sciences

Hispanic Baccalaureate African American Baccalaureate Biological and Life Biological and Life Sciences Sciences Xavier University of Louisiana 165 The University of Texas at San Antonio 108 The University of Texas-Pan American **Howard University** 79 123 University of California-Los Angeles Hampton University 63 82 Jackson State University The University of Texas at Austin 73 95 University of California-Davis South Carolina State University 61 50 University of Maryland-College Park University of Miami 56 65 Florida A&M University 37 University of New Mexico-Main Campus 56 **Tuskegee University** 37 Florida International University 52 Tennessee State University 45 University of California-San Diego 73 Prairie View A&M University 45 The University of Texas at El Paso 91 Alcorn State University 44 University of California-Irvine 56 Morehouse College 29 University of Arizona 55 Grambling State University St. Mary's University 52 Oakwood College 32 University of Florida 39

Texas A&M University

97

37

57

Native American Baccalaureate 1. Biological and Life Sciences

Georgia State University

Spelman

Northeastern State University	15
Oklahoma State University-Main	
Campus	17
University of North Carolina at Pembroke	18
University of Colorado at Boulder	9
University of Oklahoma-Norman Campus	9
University of New Mexico-Main Campus	6
Southeastern Oklahoma State University	9
University of Washington-Seattle	
Campus	8
University of California-San Diego	5
University of California-Davis	10

Engineering

New Mexico State University-Main

Michigan Technological University

Massachusetts Institute of Technology

Arizona State University-Main Campus

Campus

African American Baccalaureate Hispanic Baccalaureate Engineering Engineering Georgia Inst. of Technology-Main Campus 120 Florida International University 167 North Carolina A&T State University University of Florida 129 117 California Polytechnic St. Univ.-San Luis Florida A&M University 76 Obispo 96 Morgan State University The University of Texas at Austin 79 57 Tuskegee University The University of Texas at El Paso 61 168 Southern University and A&M College California St. Polytechnic Univ.- Pomona 67 101 Prairie View A&M University Texas A&M University 72 78 North Carolina State University at New Mexico State University-Main Raleigh 66 Campus 65 University of Michigan-Ann Arbor 61 Arizona State University-Main Campus 59 Michigan State University 47 Massachusetts Institute of Technology 56 Tennessee State University 33 Texas A&M University-Kingsville 94 Clemson University The University of Texas-Pan American 39 71 Virginia Polytechnic Institute and St. 39 49 Univ. University of Illinois at Chicago University of Maryland-College Park 63 University of New Mexico-Main Campus 66 University of Florida University of Arizona 36 46 **Native American Baccalaureate** II. Engineering Oklahoma State University-Main Campus 20

11

10

10

9

Physical Science Baccalaureates

. Physical Sciences		/. Physical Sciences	
Xavier University of Louisiana	48	Florida International University	37
Howard University	20	St. Mary's University	17
Tennessee State University	21	The University of Texas at Austin	15
Lincoln University	13	University of California-Los Angeles	14
Jackson State University	10	University of California-San Diego	13
CUNY City College	19	The University of Texas at El Paso	14
Spelman College	19	University of California-Irvine	12
Dillard University	17	The University of Texas-Pan American	17
Florida A&M University	29	University of Florida	15
North Carolina State University at		•	
Raleigh	19	University of California- Santa Barbara	9
Southern University and A&M College	15	University of Miami	6
Morehouse College	28	California State University-Sacramento	4
Georgia Southern University	12	The University of Texas at San Antonio	8
Fisk University		Rutgers University-New Brunswick	7
•		New Mexico Inst. of Mining and	
Georgia State University	12	Technology	
University of Virginia-Main Campus	7	University of California-Santa Cruz	11

Section IX The Major Organizations, Fairs, and Conferences

At the beginning of each recruitment season the Sloan faculty or staff member should develop a calendar of recruitment visits to fairs, conferences, universities, or departments. Below is a sample calendar.

Sample Recruitment Travel Calendar from 2002

September

	<u>Date</u>	Event or Institution	City/State
XV.	Sept. 9-12	NASW-MI Annual Conference	Detroit, MI
	Sept. 12	Greater Baltimore Consortium	Baltimore, MD
	Sept. 13	Valparaiso University	Valparaiso, IN
	Sept. 18	Alcorn State University	Lorman, MS
	Sept. 18	Ball State University	Muncie, IN
	Sept. 19	Jackson State Grad Fair	Jackson, MS
	Sept. 20	Tougaloo College	Tougaloo, MS
	Sept. 20-22	Hispanic Leadership Institute	Chicago, IL
	Sept. 23	George Washington University	Washington, DC
	Sept. 23	Washington DC Area University Fair	Washington, DC
	Sept. 24	Ferris State University	Big Rapids, MI
	Sept. 24	Tennessee State University Grad Fair	Nashville, TN
	Sept. 25	College of William and Mary	Williamsburg, VA
	Sept. 25	FISK-Nashville, TN	Nashville, TN
	Sept. 25	Vanderbilt University	Nashville, TN
	Sept. 25	Nashville University	Nashville, TN
	Sept. 26	University of Memphis	Memphis, TN
	Sept. 26	Rhodes University	Memphis, TN
	Sept. 26	SACNAS	Anaheim, CA
	Sept. 30	California State University	Long Beach, CA
	Sept. 30	Long Beach State University	Long Beach, CA
	October		
XVI.	Oct. 1	Bradley University	Peoria, IL
	Oct. 1	University of Southern California	Los Angeles, CA
	Oct. 2	UCLA	Los Angeles, CA
	Oct. 2	New Mexico State University	Las Cruces, CA
	Oct. 2	Illinois State University	Bloomington, IL
	Oct. 2	Syracuse University	Syracuse, NY
	Oct. 2	Virginia Tech University	Blacksburg, VA

Oct. 2	Cornell University	Ithaca, NY
Oct. 3	Cal Poly Pomona	Pomona, CA
Oct. 3	Monmouth College	Monmouth, IL
Oct. 3	Knox College	Galesburg, IL
Oct. 3	UTEP	El Paso, TX
Oct. 3	Howard University	Washington, DC
Oct. 4	University of California Riverside	Riverside, CA
Oct. 4	Carnegie Mellon	Pittsburgh, PA
Oct. 4	University of New Mexico	Albuquerque, NM
Oct. 4	Augustana College	Rock Island, IL
Oct. 6	Rutgers University	Newark, NJ
Oct. 7	San Francisco State University	San Francisco, CA
Oct. 7-8		
	AGEP (U of Alabama)	Birmingham, AL
Oct. 8	University of North Texas	Denton, TX
Oct. 8	University of Texas, San Antonio	San Antonio, TX
Oct. 9	University of Texas, Austin	Austin, TX
Oct. 9	Tuskegee University	Tuskegee, AL
Oct. 9	Saginaw Valley University	Saginaw, MI
Oct. 10-11	Hampton University	Hampton, VA
Oct. 11	California State University Hayward	Hayward, CA
Oct. 14	University of California	Santa Cruz, CA
Oct. 14	Georgia State University	Atlanta, GA
Oct. 15	Atlanta University Center	Atlanta, GA
Oct. 15	University of Wisconsin	Madison, WI
Oct. 15	California State University Monterey Bay	Monterey Bay, CA
Oct. 16	Colby College	Waterville, ME
Oct. 16	Bates College	Lewiston, ME
Oct. 16	University of Nebraska	Lincoln, NE
Oct. 16	Sonoma State University	Rohnert Park, CA
Oct. 17	Yale University Grad Fair	New Haven, CN
Oct. 17	University of California	Davis, CA
Oct. 17	Marygrove College	Detroit, MI
Oct. 17	Bowdoin College	Brunswick, ME
Oct. 18	Princeton University	Princeton, NJ
Oct. 18	Northwestern University	Evanston, IL
Oct. 19	University of Michigan	Ann Arbor, MI
Oct. 21	University of Michigan	Ann Arbor, MI
Oct. 21	University of California	San Diego, CA
Oct. 22	Tulane University	New Orleans, LA
Oct. 22	Michigan State University	Lansing, MI
Oct. 22	Loyola University	New Orleans, LA
Oct. 23	North Carolina A&T	Greensboro, NC
Oct. 23		Pembroke, NC
Oct. 23	Southern University at New Orleans	New Orleans, LA
Oct. 23	Northwestern University	Evanston, IL
Oct. 23	Ohio State University	Columbus, OH
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Oct. 23	Southern University	New Orleans, LA
Oct. 23	University of San Diego	San Diego, CA
Oct. 24	Duke University	Durham, NC
Oct. 24	Bachelor Program Directors	Pittsburgh, PA
Oct. 24	Wayne State University	Detroit, MI
Oct. 24	Dillard University	New Orleans, LA
Oct. 24	San Diego State University	San Diego, CA
Oct. 24	University of Michigan at Dearborn	Dearborn, MI
Oct. 25	Xavier University	New Orleans, LA
Oct. 25	Point Loma University	San Diego, CA
Oct. 28	University of Illinois-Urbana Champaign	Champaign, IL
Oct. 28	University of California, Irvine	<u>Irvine, CA</u>
Oct. 28	Southern University	New Orleans, LA
Oct. 29	Trenton State College	Princeton, NJ
Oct. 29	California State University	Fullerton, CA
Oct. 29	Wayne State University	Detroit, MI
Oct. 30	University of Notre Dame	South Bend, IN
Oct. 30	University of Illinois, NOBCCHE Chapter	Urbana/Champaign, IL
Oct. 31	University of California-Santa Barbara	Santa Barbara, CA
Oct. 31	University of the Sciences in Philadelphia	<u>Philadelphia, PA</u>

November

XVII.	Nov. 1	McNair Conference	Delavan, WI
	Nov. 1	Cal Poly-San Luis Obispo	San Luis Obispo, CA
	Nov. 2	Mid-West Caravan	Chicago, IL
	Nov. 6	Rutgers University	Newark, NJ
	Nov. 6	Albion College	Albion, MI
	Nov. 7	Denison College	Granville, OH
	Nov. 7	Kenyon College	Grambier, OH
	Nov. 8	AISES	Tulsa, OK
	Nov. 13	ABRCMS	New Orleans, LA
	Nov. 21	University of North Carolina	Chapel Hill, NC
	Nov. 22	University of North Carolina	Pembroke, NC

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Site where participating institutions can be found:

http://www.nacme.org/sloan/MPHDP/schools/

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Site where participating institutions can be found:

http://www.nsfagep.org/about/AGEP_Directory.pdf

Biographical Sketch of Dwight Lewis

Dwight Lewis has worked at Purdue for 20 years and has spent 17 of those years as Director of Minority Programs in the Graduate School. He has a long successful record and experience with the recruitment of minority students. He believes strongly in the importance of networking for successfully building a recruitment program. He has a considerable knowledge of numerous Research One institutions and the challenges that recruiters face daily.

Dwight has substantially improved the overall competitiveness of Purdue University with new and continuing programs that were developed and coordinated from his office. The three most successful programs are as follows: (1) The Historically Black Institution (HBI) Visitation Program, (2) the NIH Summer Research Institute, and (3) the Sloan Scholars Program. (4) Dwight had a major leadership role with the (4) Committee on Institutional Cooperation (CIC) Access Panel that modeled our SROP program. (5) The Graduate School, through efforts such as the Sloan Scholars Program in Chemistry and the Historically Black Institution (HBI) Visitation Program, has assisted in increasing the chemistry minority Ph.D. students from 13 in 1995 to 51 in 2002 and the African American enrollment from 123 in 1988 to a record 242 students in fall 2003.

This recruitment program has successfully increased the minority enrollment 200% over the last 15 years, with a record enrollment being achieved in nine of the last 14 years. If the enrollment increase during this recent period is compared to the increase seen in the 10 years prior to this last decade (1975 through 1984), Purdue's minority graduate student enrollment only increased from 210 to 217, or by just 3%.

Purdue is ranked number two by the American Chemical Society (ACS) in the production of minority Ph.D. graduates in chemistry in the U.S., and QEM recognized Purdue as ranking 10th in the country in the productions of minority Ph.Ds in Science and Engineering. Since the 1992 academic year, Dwight Lewis has visited more than sixty select colleges and universities.

The following are other highlights of his accomplishments:

- Co-founded two successful programs: one of the nation's first summer programs MARC/AIM, and Purdue's very successful HBI visitation program.
- A record enrollment of **421** underrepresented students enrolled Fall 2003.
- We also reached a record 242 enrolled African American graduate students.
- There are currently **81** students enrolled in graduate school who were former HBI visitors.
- As of May 2002, **171** HBI students have earned graduate degrees: **32 PhDs**. and **139 Master's** degrees have been awarded.
- Since May 1996, **42** students have graduated from Biosciences, and eleven students in biology and chemistry have completed the PhD making Purdue a national leader in the production of minority PhDs in the biomedical sciences. Enrollment has increased from **36** to **74**.
- Raised over \$9,500,000 for programs at Purdue between 1985-2003.

Short Descriptions of Programs

Sloan PhD Programs

The faculty members and departments participating in the Alfred P. Sloan Minority Ph.D. Programs were selected because they have demonstrated a commitment to educating African American, American Indian and Latino leaders. Each has a track record of preparing women and men from historically underrepresented groups for leadership in engineering and technology, mathematic and science-based disciplines.

Sloan and the Ph.D. department will works together to guarantee you financial support as long as you are making satisfactory progress toward your degree. Beyond the monetary assistance, you receive the mentoring and guidance that often spells the difference between beginning and completing a degree. But, choosing where you study for your graduate degree is as important as choosing to pursue one.

Sloan Feeder Component

How the Feeder Component of the Sloan Minority Ph.D. Program Works? The Sloan Foundation will include in the feeder component of its Minority Ph.D. program only departments that have a record of sending a significant number of their underrepresented minority B.S. or M.S. graduates (African Americans, Hispanic Americans and Native Americans) on into Ph.D. programs in mathematics, natural science and engineering.

The Foundation will provide three-year, renewable grants to a limited number of such departments for the purpose of increasing the number of their underrepresented minority graduates sent on into Ph.D. programs in mathematics, natural science and engineering. Funded programs must be open to any student in supported departments, not only the minority students. The amount of the grants is adjusted to take into account the fact that some fraction of the participating students will not be underrepresented minorities.

All or most of the money should be used for student support, including tuition, stipend, books, summer support while working toward the degree, or travel to professional meetings. If needed, some of the money may also be used for program administration, including recruiting, and to cover overhead up to 15 percent.

Initiative for Minority Student Development

The IMSD Program (R25) seeks to encourage the development and/or expansion of innovative programs to improve the academic and research competitiveness of underrepresented minority students at the undergraduate, graduate, or postdoctoral levels and to facilitate their progress toward careers in biomedical research.

Awards are made to domestic, private and public educational institutions that are involved in biomedical research and training. The institutions select the students to be supported. These students must be majoring in biomedical relevant sciences or be in medical, dental, or veterinary training and have an interest in pursuing research careers.

Applicants should describe the systems by which they would monitor and track the student participants in their programs, including the careers students choose after graduation and the benefits of the programs on student retention and graduation rates.

McNair Program

The Ronald E. McNair Post baccalaureate Achievement program, named after the late Dr. Ronald E. McNair, is a federal TRIO program funded at 156 institutions across the United States and Puerto Rico by the U.S. Department of Education. The McNair Program is designed to prepare participants for doctoral studies through involvement in research and other scholarly activities.

McNair participants are from disadvantaged backgrounds and have demonstrated strong academic potential. Institutions work closely with these participants through their undergraduate requirements, encourage their entrance into graduate programs, and track their progress to successful completion of advanced degrees.

The goal of the McNair Program is to increase graduate degree attainment of students from underrepresented segments of society.

Services Provided by McNair programs Include:

- Mentoring
- Research opportunities for participants who have their sophomore year of College
- Seminars and other scholarly activities designed to prepare students for doctoral studies
- Summer internships (with up to a \$2,800 research stipend)
- Tutoring
- Academic counseling
- Assistance in obtaining student financial aid
- Assistance in securing admission and financial aid for enrollment in graduate programs
- Fee waivers for graduate applications and fellowships for McNair Scholars (the current list is available from the University of Rochester at http://www.rochester.edu:80/College/McNair-Program/AppIncentives.html

The Minority Access to Research Careers (MARC) Program

The Minority Access to Research Careers (MARC) Program was created by the National Institute of General Medical Sciences (NIGMS) to increase the number of biomedical and behavioral scientists from minority groups. A key objective of the MARC Program is the encouragement of minority students in the pursuit of graduate training leading to the Ph.D. degree in the biomedical and behavioral sciences.

Research Initiative for Scientific Enhancement

The RISE Program (R25) seeks to enhance the research environment at minority-serving institutions. The overall goal is to increase the interest, skills, and competitiveness of students and faculty in pursuit of biomedical research careers. The program offers support for faculty and student development activities, which can include on- or off-campus workshops, specialty courses, travel to scientific meetings, and research experiences at on- or off-campus laboratories. Support is available for evaluation activities, as well.

The RISE Program also offers support for institutional development, which includes limited funds for the renovation or remodeling of existing facilities to provide space for an investigator to carry out developmental activities, limited equipment purchases, and the development of research courses. An institution may hold only one active RISE award and may not be currently receiving support from the IMSD Program. In addition, institutions are expected to set specific goals and measurable objectives against which they will be evaluated when they recompete for continued funding.

Support of Continuous Research Excellence

The purpose of the SCORE Program (S06) is to develop biomedical research faculty at minority-serving institutions who are committed to improving competitive research programs and increasing the number of underrepresented minorities professionally engaged in biomedical research. This is achieved by providing financial assistance to competitive developing research programs in all areas of biomedical and behavioral research at institutions with significant underrepresented minority student enrollments. The program supports faculty-initiated, scientifically meritorious research projects, including pilot research projects. Support for faculty participating in pilot research projects is preparatory to seeking more substantial funding from other NIH research grant programs (such as the MBRS SCORE Program, Academic Research Enhancement Awards, and R01 research project grants).

The SCORE Program includes such allowable costs as faculty salaries (reimbursed according to percent effort), salaries for technicians, limited administrative support, consultant fees, equipment, research supplies, scientific seminar series, travel, and support for evaluation activities. An institution may hold only one active SCORE award and may not be currently receiving support from the IMSD Program. In addition, institutions are expected to set specific goals and measurable objectives against which they will be evaluated when they recompete for continued funding.

Initiative for Minority Students: Bridges to the Baccalaureate Degree

The Bridges to the Baccalaureate Degree initiative (R25) provides support to institutions to help students make transitions at a critical stage in their development as scientists. The program is aimed at helping students make the transition from 2-year junior or community colleges to full 4-year baccalaureate programs. A key component of the Bridges to the Future Program is partnership between institutions with the goal of providing a seamless transition for students who are interested in careers in biomedical research. The partnership must involve at least two colleges or universities, but it may involve a consortium of several institutions and it may include several institutions within a single state system. The 2-year college must offer the associate degree as the only undergraduate degree in the sciences within the participating departments and must have a significant enrollment of underrepresented minority students. One participating institution must be designated as the applicant institution, must name the program director, and must submit the application. Each participating institution must also name one individual to act as its program coordinator. Awards are made to domestic, private and public, educational institutions. State and local systems of higher education may also apply. Bridges to the Future specifically targets underrepresented minority students, defined as students who belong to a racial group that is underrepresented in the biomedical sciences. These minority groups include, but are not limited to, African Americans, Hispanic Americans, Native Americans (including Alaska Natives), and natives of the U.S. Pacific Islands, Allowable costs include, but are not limited to: tuition remission, supplies, equipment, travel. other expenses, salary, wages, and fringe benefits for students and faculty.

Initiative for Minority Students: Bridges to the Doctoral Degree

The Bridges to the Doctoral Degree initiative (R25) provides support to institutions to help students make a critical transition in their development as scientists. The program is aimed at helping students make the transition from master's degree programs to Ph.D. programs. A key component of the Bridges to the Future Program is partnership between institutions with the goal of providing a seamless transition for students who are interested in careers in biomedical research. The partnership must involve at least two colleges or universities, but it may involve a consortium of several institutions and it may include several institutions within a single state system. The program promotes partnerships between institutions awarding the master's degree as the terminal degree and universities awarding the Ph.D. degree. The master's degree-awarding institution must have a significant enrollment of underrepresented minority students. One participating institution must be designated as the applicant institution, must name the program director, and must submit the application. Each participating institution must also name one individual to act as its program coordinator. Awards are made to domestic, private and public, educational institutions. State and local systems of higher education may also apply.

Bridges to the Future specifically targets underrepresented minority students, defined as students who belong to a racial group that is underrepresented in the biomedical sciences. These minority groups include, but are not limited to, African Americans, Hispanic Americans, Native Americans (including Alaska Natives), and natives of the U.S. Pacific Islands.

Historically Black Colleges and Universities- Undergraduate Program

This program seeks to enhance the quality of undergraduate science, technology, engineering, and mathematics (STEM) education at Historically Black Colleges and Universities as a means to broaden participation in the Nation's STEM workforce. The program provides support for the implementation of comprehensive institutional strategies to strengthen STEM teaching and learning in ways that improve access to and retention of underrepresented groups in STEM disciplines. Typical project implementation strategies include STEM course and curricular reform and enhancement, faculty professional development, supervised research and other active learning experiences for STEM undergraduates, student support, scientific instrumentation to improve STEM instruction, and other activities that meet institutional needs.

Louis Stokes Alliances for Minority Participation

The Louis Stokes Alliances for Minority Participation (LSAMP) program is designed to develop the comprehensive strategies necessary to strengthen the preparation and increase the number of minority students who successfully complete baccalaureates in science, technology, engineering, and mathematics (STEM) fields. This objective facilitates the long-term goal increasing the production of PhDs in STEM fields with an emphasis on entry into faculty positions.

The LSAMP program requires each awardee to establish meaningful partnerships among academic institutions, and encourages the inclusion of government agencies and laboratories, industry and professional organizations. It is expected that successful partnerships will enable development of approaches tailored to the institutional setting for achievement of program goals in STEM undergraduate education. Supported activities include, among others: student enrichment, such as collaborative learning, skill development, and mentoring; academic enrichment, such as curricular and instructional improvement; and direct student support, such as summer activities.

Centers for Research Excellence in Science and Technology

NSF recognizes that academic institutions with significant minority student enrollments play a vital role in conducting research that contributes to our knowledge base in all disciplines, and in educating minority students who go on to careers in fields of science, technology, engineering, and mathematics (STEM). The Centers of Research Excellence in Science and Technology (CREST) program makes substantial resources available to upgrade the capabilities of the most research-productive minority-serving institutions. It develops outstanding centers through the integration of education and research. It serves to promote the production of new knowledge, to increase the research productivity of individual faculty, and to expand a diverse student presence in STEM disciplines. The program also enables CREST Centers to increase the effectiveness of related science and engineering activities within their research areas.

Historically Black Colleges and Universities - Research Infrastructure for Science and Engineering (HBCU-RISE) The Historically Black Colleges and Universities - Research Infrastructure for Science and Engineering (HBCU-RISE) activity formerly know as the HBCU Doctoral Capacity Building activity has been incorporated into the CREST program solicitation. HBCU-RISE supports the development of research capability at Historically Black Colleges and Universities that offer doctoral degrees in science, technology, engineering and mathematics (STEM) disciplines. Activities include, but are not limited to faculty and technical support, faculty professional development, acquisition and/or upgrading of research equipment, collaborative research efforts with partner universities and National laboratories.

Alliances for Graduate Education and the Professoriate

The Alliances for Graduate Education and the Professoriate (AGEP) program seeks to increase significantly the number of Black (African-American), Hispanic and American Indian/Alaskan Native (Native American) students receiving doctoral degrees in all disciplines funded by the National Science Foundation (NSF).

The scarcity of role models and mentors in the professoriate constitutes a significant barrier to producing

minority graduates, and NSF is particularly interested in increasing the number of minorities who will enter the professoriate in these disciplines.

Specific objectives of the AGEP Program are to: (1) develop and implement innovative models for recruiting, mentoring, and retaining minority students in doctoral programs and (2) develop effective strategies for identifying and supporting underrepresented minorities who want to pursue academic careers.

The AGEP program also supports a research effort to identify major factors that promote successful transition of minority students from: (1) undergraduate through graduate study (2) course-taking in the early years of the graduate experience to independent research required for completion of a dissertation, and (3) the academic environment to the workplace. To accomplish this objective, the research component will be informed by a portfolio of Federal and private sector efforts in this arena in order to identify factors underlying exemplary as well as unsuccessful efforts.

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