# 2006-2603: MIND LINKS 2006: RESOURCES TO MOTIVATE MINORITIES TO STUDY AND STAY IN ENGINEERING

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# MIND Links 2006: Resources to Motivate Minorities to Study and Stay In Engineering

#### Abstract

MIND is the acronym for the American Society for Engineering Education (ASEE) MINorities in Engineering Division. The *MIND Links* project gathers useful web links and information on resources that would allow minority students and minority faculty to find and take full advantage of the myriad of programs and information designed to promote their participation in the engineering and technology disciplines. This paper provides more than 500 links.

#### Introduction

Many minority students and minority faculty do not take full advantage of the myriad of programs designed to promote their participation in engineering and technology disciplines because they may not be aware of these opportunities, nor of how and where to apply. Opportunities range from programs designed to promote student interest in these fields, to summer enrichment programs, scholarships, fellowships, research opportunities, awards, leadership programs, and career advancement programs. This survey organizes these opportunities and resources, specially targeting those of particular interest to engineering students and engineering faculty, and provides links to internet sites containing further details. An analysis is done of possible areas of need not covered adequately by existing resources.

#### **Engineering Professional Societies and Engineering Education Related Sites**

Professional societies for engineers provide scholarships, fellowships, awards, conferences, competitions, publications, and resources for students, parents, educators and professional engineers. Table 1 shows a listing of engineering professional societies. The computer science and engineering technologies societies are included in this table because the computer science and engineering technology programs are often housed in the college of engineering. The table also includes architecture, because students may want to explore the differences between this discipline and construction or civil engineering. Table 2 lists the engineering related honor societies. Table 3 lists other engineering-related societies, including science, mathematics, medical, and education societies. Table 4 lists engineering, technology, science and educational societies that specifically target underrepresented minorities, and the list in Table 5 targets women in these disciplines.

Engineering Professional Organization     Web link	
AAAI American Association for Artificial Intelligence	http://www.aaai.org
AAES American Association of Engineering Societies	http://www.aaes.org
ABET Accreditation Board for Engineering and Technology	http://www.abet.org

**Table 1. Engineering Professional Societies** 

ACEC American Consulting Engineers Council	http://www.acec.org/
ACM Association for Computing Machinery	http://www.acec.org/
ACTE Association for Computing Machinery	http://www.acteonline.org/
AEE Association of Energy Engineers	http://www.aecconter.org/
AEG Association of Engineering Geologists	http://www.umr.edu/~aeg/
AIA American Institute of Architects	http://www.aiaonline.com/
AIChE American Institute of Chemical Engineers	http://www.aiche.org/
AIH American Institute of Hydrology	http://www.aihydro.org/ http://www.aimbe.org
AIMBE American Institute of Medical and Biological Engineers	
AIME American Institute of Mining, Metallurgical and Petroleum	http://www.aimeny.org/ http://www.idis.com/aime/
Engineers	
ANS American Nuclear Society	http://www.ans.org
ASA American Society of Agronomy	http://www.agronomy.org
ASAE American Society of Agricultural Engineers	http://www.asae.org
ASCE American Society of Civil Engineers	http://www.asce.org
ASEE American Society of Engineering Education	http://www.asee.org
ASHRAE American Society of Heating, Refrigeration and Air	http://www.ashrae.org/
Conditioning Engineers	
ASM International (The Materials Information Society)	http://www.asm-intl.org/
ASME American Society of Mechanical Engineers	http://www.asme.org/
ASNE American Society of Naval Engineers, Inc.	http://www.navalengineers.org/
ASNT American Society for Nondestructive Testing, Inc.	http://www.asnt.org/
ASTC Association of Science Technology Centers	http://www.astc.org
AWAA American Water Works Association	http://www.awwa.org/
ECUK British Engineering Council	http://www.engc.org.uk/
ENSMP European Federation of National Engineering Societies	http://www.cri.ensmp.fr/feani/
ESA Ecological Society of America	http://www.esa.org/
FMB Federation of Master Builders	http://www.fmb.org.uk
FMS Federation of Materials Societies	http://www.fms.org
HKIE Hong Kong Institute of Engineers	http://www.hkie.org.hk/
HFES Human Factors and Ergonomics Society	http://www.hfes.org
ICE The Institution of Civil Engineers	http://www.ice.org.uk/
ICHEME The Institution of Chemical Engineers	http://www.icheme.org.uk/
IEE The Institution of Electrical Engineers	http://www.iee.org/
IEEE Institute of Electrical and Electronic Engineers	http://www.ieee.org/
IEST Institute of Environmental Sciences and Technology	http://www.iest.org/
IFCE International Federation of Consulting Engineers	http://www.fidic.org/
IIE Institute of Industrial Engineers	http://www.iienet.org/
IMechE The Institution of Mechanical Engineers	http://www.imeche.org.uk/
INFORMS Institute for Operations Research and Management	http://www.informs.org
Sciences	
ITEA International Technology Education Association	http://www.iteawww.org/A.html
IWITTS Institute for Women in Trades, Technology & Science	http://www.iwitts.com/
JETS Junior Engineering Technical Society	http://www.jets.org
Marine Technology Society	http://www.mtsociety.org/
NAE National Academy of Engineering	http://www.nae.edu
NA National Academies (of Sciences, Engineering and Medicine)	http://www.nas.edu
NASA National Aeronautics and Space Administration	http://www.ipl.nasa.gov/education/educators/
NGWA National Ground Water Association (Association of Ground	http://www.jpi.nasa.gov/cducation/cducators/
Water Scientists and Engineers)	http://www.htgwa.org/
NICE National Institute of Ceramic Engineers	http://www.ceramics.org
NSF National Science Foundation	http://www.nsf.gov/
NSPE National Society of Professional Engineers	http://www.nspe.org
SAE Society of Automotive Engineers	http://www.nspe.org/
SAL SUMMY OF AUDITORIVE ENGINEERS	<u>http://www.sac.01g/</u>

SFPE Society of Fire Protection Engineers	http://www.sfpe.org
SIM Society for Industrial Microbiology	http://www.simhq.org/
SNAME Society of Naval Architects and Marine Engineers	http://www.sname.org/
SPIE International Society of Optical Engineers	http://www.spie.org

Engineering Honor Society	Web link	
Alpha Sigma Mu Metallurgy and Materials Engineering Honor Society	http://www.alphasigmamu.org	
Chi Epsilon National Civil Engineering Honor Society	http://www.chi-epsilon.org/	
HKN Eta Kappa Nu Honor Society for Electrical & Computer Engineers	http://www.etakappanu.org/	
Omega Chi Epsilon National Chemical Engineering Honor Society	http://www.omegachiepsilon.org/	
Pi Tau Sigma International Mechanical Engineering Honor Society	http://www.pitausigma.net/	
Sigma Chi Honor Society for Scientific and Engineering Research	http://www.sigmaxi.org/	
Tau Alpha Pi National Honor Society for Engineering Technology	http://www.taualphapi.org/	
TBP Tau Beta Pi National Engineering Honor Society	http://www.tau.org	
The Order of the Engineer (Order of the Ring)	http://www.order-of-the-	
	engineer.org/	
UPE Upsilon Pi Epsilon Honor Society for Computing & Information	http://www.acm.org/upe/	
Disciplines		

#### **Table 2. Engineering Honor Societies**

# Table 3. Other Engineering, Science or Technology Related Societies

Engineering Professional Organization	Web link
AAA American Anthropological Association	http://www.ameranthassn.org/index.htm
AAAI American Association for Artificial Intelligence	http://www.aaai.org
AAAS American Association for the Advancement of Science	http://www.aaas.org/
AACC American Association of Community Colleges	http://www.aacc.nche.edu/
AACC American Association of Clinical Chemistry	http://www.aacc.org/
AACN American Association of Colleges of Nursing	http://www.aacn.nche.edu/
AACOM American Association of Colleges of Osteopathic Medicine	http://www.aacom.org/
AACP American Association of Colleges of Pharmacy	http://www.aacp.org/
AACU Association of American Colleges and Universities	http://www.aacu-edu.org/
AADS American Association of Dental Schools	http://www.aads.jhu.edu/
AAFS American Academy of Forensic Sciences	http://www.aafs.org
AAG Association of American Geographers	http://www.aag.org/
AAHE American Association for Higher Education	http://www.aahe.org/
AAI American Association of Immunologists	http://www.aai.org/
AAMC Association of American Medical Colleges	http://www.aamc.org/
AAPG American Association of Petroleum Geologists	http://www.aapg.org/
AAPM American Association of Physicists in Medicine	http://www.aapm.org
AAPS American Association of Pharmaceutical Scientists	http://www.aaps.org
AAPT American Association of Physics Teachers	http://www.aapt.org/
AAS American Astronomical Society	http://www.aas.org/
AASCU American Association of State Colleges and Universities	http://www.aascu.org/
AAU Association of American Universities	http://www.tulane.edu/~aau/
AAUP American Association of University Professors	http://www.aaup.org/
ACA American Crystallographic Association	http://nexus.hwi.buffalo.edu/aca/
ACE American Council on Education	http://www.acenet.edu
ACS American Chemical Society	http://www.acs.org/
ACPE American Council on Pharmaceutical Education	http://www.acpe-accredit.org/
American College of Toxicology	http://www.actox.org/
American Dental Association	http://www.ada.org/
AEA American Economics Association	http://www.vanderbilt.edu/aea/

AERA American Educational Research Association	http://www.aera.net/
AGI American Geological Institute	http://www.agiweb.org/
AGU American Geophysical Union	http://www.agu.org/
AIA American Institute of Architects	http://www.aiaonline.com/
AIBS American Institute of Biological Sciences	http://www.aibs.org/
AIChE American Institute of Chemical Engineers	http://www.aiche.org/
AIC American Institute of Chemists	http://www.theaic.org/
AIH American Institute of Hydrology	http://www.aihydro.org/
AIMBE American Institute of Medical and Biological Engineers	http://www.aimbe.org
AIP American Institute of Physics	http://www.aip.org
AIR American Institutes for Research	http://www.air.org/
AMA American Medical Association	http://www.ama-assn.org/
AMS American Mathematical Society	http://www.ams.org/
AMS American Meteorological Society	http://www.ametsoc.org/ams/
ANA American Nurses Association	http://www.nursingworld.org/
ANS American Nuclear Society	http://www.ans.org
AOA American Optometric Association	http://www.aoanet.org/
AOA American Osteopathic Association	http://www.osteopathic.org/
AOCS American Oil Chemists' Society	http://www.aocs.org/
APA American Psychological Association	http://www.apa.org/
APHA American Public Health Association	http://www.apha.org/
APMA American Podiatric Medical Association	http://www.apna.org/
APS American Physical Society	http://www.aps.org/
APS American Physiological Society	http://www.faseb.org/aps/
APS American Phytopathological Society	http://www.nasco.org/
ASA American Statistical Association	http://www.amstat.org/
ASA American Sociological Association	http://www.asanet.org/
ASA American Sociological Association	http://www.asance.org/
ASBMB American Society for Biochemistry and Molecular Biology	http://www.faseb.org/asbmb/
ASCB American Society of Cell Biology	http://www.iascb.org/
ASHS American Society for Horticultural Sciences	http://www.asco.org/
ASM American Society for Microbiology	http://www.asm.org/
ASIM American Society for Microbiology	http://www.asmusa.org/
ASM International (The Materials Information Society)	http://www.asm-intl.org/
ASNT American Society for Nondestructive Testing, Inc.	http://www.asht.org/
ASPB American Society of Plant Biologists	http://www.aspb.org/
ASPP American Society of Plant Physiologists	http://www.aspp.org/
ASTC Association of Science Technology Centers	http://www.aspp.org/
AVMA American Veterinary Medical Association	http://www.aste.org/
AWAA American Water Works Association	http://www.awna.org/
Biophysical Society	http://www.biophysics.org/
ESA Ecological Society of America	http://www.esa.org/
FASEB Federation of American Societies for Experimental Biology	http://www.faseb.org/
FMB Federation of Master Builders	http://www.fmb.org.uk
FMS Federation of Materials Societies	http://www.fms.org
Geochemical Society	http://www.geochemsoc.org/
Geological Society of America	
	http://www.geosociety.org/
HFES Human Factors and Ergonomics Society	http://www.hfes.org
IEST Institute of Environmental Sciences and Technology	http://www.iest.org/
IFEES International Federation of Engineering Education Societies	being created thru ASEE
INFORMS Institute for Operations Research and Management Sciences	http://www.informs.org
ITEA International Technology Education Association	http://www.iteawww.org/A.html
MAA Mathematics Association of America	http://www.maa.org
NA National Academies (of Sciences, Engineering and Medicine)	http://www.nas.edu

NCTM National Council of Teachers of Mathematics	http://my.nctm.org/eresources/
NIH National Institute of Health	http://www.nih.gov/
NSF National Science Foundation	http://www.nsf.gov/
NSTA National Science Teacher Association	http://www.nsta.org/
OSA Optical Society of America	http://www.osa.org/
The Protein Society (Biology, Medicine & Technology)	http://www.osa.org/
SFN Society for Neuroscience	http://www.sfn.org/
SIM Society for Industrial Microbiology	http://www.simhq.org/
Society of Toxicology	http://www.toxicology.org/
WFEO/FMOI World Federation of Engineering Organizations /	http://www.wfeo.org/
Federation Mondiale des Organisations d'Ingenieurs	

# Table 4. Sites targeting Minorities in Engineering, Science, Technology or Mathematics

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<b>Minority Professional Organizations</b>	Web link
AABE American Association for Blacks in Energy	http://www.aabe.org/
AIMD American Institute for Managing Diversity,	http://www.awm-math.org/
Inc.	
AISES American Indian Science and Engineering	http://www.aises.org
Society	
AMSE Association of Muslim Scientists and	http://www.amse.net/
Engineers	
ASEE MIND (Minority in Engineering Division)	http://www.webster.edu/spacecoast/Ali_Shaykhian/MIND/
ASPIRA Association for Puerto Ricans in Science and	http://www.nas.edu/cwse/ASPIRA.html
Engineering	http://www.aspira.org/
GEM National Consortium for Graduate Degrees for	http://www.nacme.org/
Minorities in Engineering and Science	
HENAAC Hispanic Engineer National Achievement	http://www.henaac.org/
Awards Conference	
HESTEC Hispanic Engineering Science &	http://www.hestec.org/
Technology Week	
La Familia Network: the Hispanic family embracing	http://lafamilianet.net/
technology	
LACCEI Latin American and Caribbean Consortium	http://www.laccei.org
of Engineering Institutions	
NACME National Action Council for Minorities in	http://www.nacme.org
Engineering	
NCOURAGES National Coalition of	http://www.ncourages.org
Underrepresented Racial and Ethnic Advocacy Groups	
in Engineering and Science	
NSBE National Society of Black Engineers	http://www.nsbe.org/
SACNAS Society for Advancement of Chicanos and	http://www.sacnas.org/
Native Americans in Science	
SECME formerly Southeastern Consortium for	http://www.secme.org/
Minorities in Engineering	
SHPE Society of Hispanic Professional Engineers	http://www.shpe.org

# Table 5. Engineering, Technology, Science and Mathematics Societies for Women

Professional Organizations for Women	Web link
AAUW American Association of University Women	http://www.aauw.org/
AAWD American Association of Women Dentists	http://www.aawd.org/
AAWR American Association for Women Radiologists	http://www.aawr.org/
ABIWT The Anita Borg Institute for Women and	http://www.iwt.org/

Technology	http://www.anitaborg.org/
AMWA American Medical Women's Association	http://www.amwa-doc.org/
ASEE Women in Engineering Division	http://www.csupomona.edu/%7Esparisay/ASEE/WIED/
ASWA American Society of Women Accountants	http://www.aswa.org/
AWC Association for Women in Computing	http://www.awc-hq.org/
AWG Association for Women Geoscientists	http://www.awg.org/
AWID Association for Women Industrial Designers	http://www.core77.com/awid/
AWIS Association for Women in Science	http://www.awis.org/
AWiSE Association of Women in Science and	http://www.awise.org/
Engineering	
AWM Association for Women in Mathematics	http://www.awm-math.org/
AWP Association for Women in Psychology	http://www.iup.edu/counsl/awpac/
AWMI Association of Women in the Metal Industries	http://www.awmi.com/
AWSS Association of Women Soil Scientists	http://awss.homestead.com/
CWSE Committee on Women in Science and	http://www7.nationalacademies.org/cwse/
Engineering	
FWE Forum for Women Entrepreneurs	http://www.fwe.org/
IWITTS Institute for Women in Trades, Technology &	http://www.iwitts.com/
Science	
SCWIST Society for Canadian Women in Science and	http://www.harbour.sfu.ca/scwist/
Technology	
SWE Society of Women Engineers	http://www.swe.org/
SWEP Society of Women Environmental Professionals	http://www.swepweb.com/
Systers On Line (community for women in computing)	http://www.systers.org/
WAM Women and Mathematics Network	http://www.mystery.com/WAM/network/Index.html
Women in Bio	http://www.womeninbio.org/
WEPAN Women in Engineering Programs and	http://www.wepan.org
Advocates Network	
Women's Engineering Society (in UK)	http://www.wes.org.uk
WIEC (IEEE Women in Engineering Committee)	http://www.ieee.org/portal/pages/committee/women/
WiSE Women into Science and Engineering	http://www.lib.iastate.edu/spcl/wise/wise.html
WITI Women in Technology International	http://www.witi.com

# **Resources for K-12 Student, Parents and Educators**

A critical factor in determining whether a student will be successful in engineering is their exposure to Mathematics. Teachers and counselors profile students into college bound and not college bound during their K-12 years, and have been criticized for not motivating or counseling minority and female students to take rigorous math courses. A poster is available through NACME showing a minority child's hand clenched in the "power" sign of a clenched fist. On the digits are written the letters M, A, T, H and states Math is Power, Demand It.

The ASEE has good publications<sup>1</sup> and activities for K-12 level motivating engineering and technology careers<sup>2</sup>. A report, *Engineering in the K-12 Classroom: An Analysis of Current Practices & Guidelines for the Future*, based on the proceedings from the 2004 Leadership Workshop on K-12 Engineering Outreach is available<sup>3</sup>. The ASEE Engineering K-12 Center offers portals for students and educators. The MAA has many resource materials for motivating Mathematics at the K-12 level<sup>4</sup>. Cornell University sponsors an award winning website<sup>5</sup> with links to educators and students in grades 9-12. ITEA is a professional association for technology education teachers who teach a problem-based learning approach utilizing math, science and

technology principles, their web site includes teacher resources, and they publish the *Journal of Technology Education*<sup>6</sup>. NASA provides many activities for K-12 education<sup>7</sup>. The AAAS provides a ScienceNetLink<sup>8</sup> web site that provides lessons, tools, resources, benchmarks. MCI Foundation supports the MarcoPolo<sup>9</sup> website that focuses on K-12 education and technology and provides teacher resources, professional development and a network. SECME, formerly known as the Southeastern Consortium for Minorities in Engineering, offers profession development for teachers, principals and superintendents and provides many programs for K-12 students, including Early College/High School (ECHS), Empowering Parents Program (EP2), ICEMS, JumpStartAtlanta, TeamGirls, and Mathletics.

Teachers often look for profiles of minority or women professionals who have chosen one of the STEM (Science, Technology, Engineering and Mathematics) for their career. A great source of posters, pictures, stories and sometimes direct communications with mentors of color, are the professional societies that focus on underrepresented groups, e.g. NACME, NSBE, SACNAS, SHPE, SWE. Student chapters of NSBE, SHPE and SWE exist in most universities with Colleges of Engineering and can be a source of young guest speakers for K-12 classes. La Familia Network<sup>10</sup> provides many resources at their sites for minority role models and other useful links. AT&T's Virtual Academy<sup>11</sup> offers online courses for integrating technology into curriculum. There are numerous sites with links to fun engineering projects<sup>12</sup>. The *4000 Years of Women in Science* project provides links biographies, references and photographs of women in science history, including astronomy, mathematics, physics, biology, chemistry, and the social sciences (see http://www.astr.ua.edu/4000WS/4000WS.html). *Contributions of 20<sup>th</sup> Century Women in Physics* is a centenary project of the American Physics Society, can be found at http://www.physics.ucla.edu/~cwp

Engineers Week held the third week of February each year produces a web site<sup>13</sup> with many resources and activities appropriate for K-12 and undergraduate students. Celebrating this week with activities and coordinating with local universities will heighten student awareness and motivation for engineering and how creativity is expressed in engineering<sup>14</sup>. As part of African American History Month and Hispanic History Month, some organizations are creating events to inspire minority families into motivating children into STEM disciplines, such as National Hispanic Engineering, Science and Technology Week (HESTEC)<sup>15</sup>.

Many societies hold competitions for the different grade levels. The Engineering Education Student Center publishes a list of competitions<sup>16</sup>. Sally Ride Science<sup>TM</sup> was founded by former NASA astronaut Sally Ride, America's first woman in space, to support girls interested in or who might become interested in science, math, and technology. They support the Sally Ride Science Club<sup>17</sup> for upper-elementary and middle school girls across the country, providing the club newsletter *The Investigator*, and online networking. The Sally Ride Circle<sup>18</sup> networks scientists, engineers, educators, parents, professional women, and science outreach experts to connect them to the Sally Ride programs and events. The Sally Ride Circle serves as a resource to others in the Circle, and get an email newsletter with relevant information.

One of their activities, the Sally Ride TOYchallenge<sup>19</sup>, cosponsored by Hasbro Toys, Picker Engineering Program at Smith College, and Sigma Xi Scientific Research Society. This

Competition supports Sally Ride Science Club Teams to nationally compete in designing toys in teams made of at least 50% girls at the 5<sup>th</sup>-8<sup>th</sup> grade levels.

Sally Ride Science also is publishing an Explore series especially for 9-12 year old readers, the first *What Do You Want To Be? Explore Space Sciences* includes 12 biographies of contemporary women scientist describing what she does, how she got there, and why she enjoys it. The next two books will focus on Earth Science and Health Sciences. The Sally Ride Science Festivals<sup>20</sup> held in different locations, bring together more than 1,000 middle school girls, parents and teachers.

Education Unlimited<sup>21</sup> offers a variety of summer programs for students in grades 4-12. Their A+ Summer Programs<sup>22</sup> held at Stanford University builds proficiency in logic, critical thinking and writing skills, dividing students into two sessions: a 12 day camp for 11<sup>th</sup> and 12<sup>th</sup> graders<sup>23</sup>, and a 9 day camp for 9<sup>th</sup> and 10<sup>th</sup> graders<sup>24</sup>, which focus on critical thinking skills in academic activities: college level writing, research skills, logical thinking/argumentation, study skills, time management, course/major selection, note taking, critical reading, and presentations. Educational Unlimited<sup>21</sup> and Sally Ride Science Camps<sup>25</sup> sponsor a camp for girls for girls entering 6<sup>th</sup> to 9<sup>th</sup> grades, are overnight 10-day camps held on college campuses designed to interest girls in science, technology and engineering using the Sally Ride Science Curriculum. Entering 11<sup>th</sup> and 12<sup>th</sup> graders can earn college credit and be introduced to the university experience through a variety of special programs. Educational Unlimited<sup>21</sup> and Berkeley offer *Summer Focus* at University of California - Berkeley 6-week summer academic enrichment program.

# **Resources for Selecting Engineering Programs**

The National Action Council for Minorities in Engineering (NACME)<sup>26</sup> offers an easy to use guide to scholarships, engineering majors. This user-friendly site allows students to narrow down their choices of institutions by choosing geographical region, number of undergraduate students, selectivity of the engineering school, top ranked by U.S. News and World Report, NACME rating (1 to 5 stars), and minimum retention rate.

There are a number of historically minority-serving institutions, such as Historically Black Engineering Colleges (HBEC) that offer many scholarships shown in Table 6

College	Location	Web Site
Alabama A& M University	Normal, AL	http://www.aamu.edu/
Hampton University	Hampton, VA	http://www.hamptonu.edu/
Howard University	Washington, DC	http://www.howard.edu/
Morgan State University	Baltimore, MD	http://www.morgan.edu/
North Carolina Agricultural and	Greensboro, NC	http://www.morgan.edu/
Technical State University		
Prairie View A & M University	Prairie View, TX	http://pvamu.edu/
Southern University	Baton Rouge, LA	http://www.subr.edu/
Tennesse State University	Nashville, TN	http://www.tnstate.edu/
Tuskeqee University	Tuskeqee, AL	http://www.tuskegee.edu/

Table 6. Historic	cally Black Engineering Colleges in the U.S.

The list of Hispanic Serving Institutions (HSI) in Table 7 was compiled from the membership list Hispanic Association of Colleges and Universities (HACU) at <u>http://www.hacu.net</u>.

Institution Organized by U.S. State/Territory	Web Site
Arizona	
Arizona Western College	www.azwestern.edu
Central Arizona College	www.centralaz.edu
Cochise College Douglas	www.cochise.edu
Estrella Mountain Community College	www.emc.maricopa.edu
Gateway Community College	www.gatewaycc.edu
Phoenix College	www.phoenixcollege.edu
Pima County Community College District District Office	www.pima.edu
South Mountain Community College	www.southmountaincc.edu
University of Arizona South	www.uas.arizona.edu
California	
Allan Hancock College	www.hancockcollege.edu
Antelope Valley College	www.avc.edu
Bakersfield College	www.bakersfieldcollege.edu
California State Polytechnic University Pomona	www.csupomona.edu
California State University Bakersfield	www.csub.edu
California State University Dominguez Hills	www.csudh.edu
California State University Fresno	www.csufresno.edu
California State University Fullerton	www.fullerton.edu
California State University Long Beach	www.csulb.edu
California State University Los Angeles	www.calstatela.edu
California State University Monterey Bay	www.csumb.edu
California State University Northridge	www.csun.edu
California State University San Bernardino	www.csusb.edu
California State University Stanislaus	www.csustan.edu
Cañada College	www.canadacollege.edu
Cerritos College	www.cerritos.edu
Chaffey College	www.chaffey.edu
Citrus College	www.citruscollege.edu
College of the Desert	www.collegeofthedesert.edu
College of the Sequoias	www.cos.edu
East Los Angeles College	www.elac.edu
El Camino Community College	www.elcamino.edu
Fresno City College	www.fresnocitycollege.edu
Fullerton College	www.fullcoll.edu
Gavilan College	www.gavilan.edu
Glendale Community College	www.glendale.edu
Hartnell College	www.hartnell.edu
Heald College Salinas	www.heald.edu
Heald College District	www.heald.edu
Imperial Valley College	www.imperial.edu
Kern Community College District	www.kccd.edu

 Table 7. HACU Member Hispanic-Serving Institutions

Long Beach City College     www lhoce edu       Los Angeles County College of Nursing and Allied Health     www lanks.org/lacuse/lacuse/lacuse/       Los Angeles Trade-Technical College     www.lanks.onc.edu       Los Modelon College     www.lanks.onc.edu       Mt. San Antonio College     www.lanks.onc.edu       Mt. San Antonio College     www.lanks.onc.edu       Mt. San Antonio College     www.msis.edu       National Hispanic University     www.msis.edu       Oxnard College     www.onnatcollege.edu       Palo Vede Community College     www.www.onnatcollege.edu       Palomar College     www.palouter.edu       Palomar College     www.palouter.edu       Palomar College     www.resched.edu       Reedley College     www.resched.edu       Reedley College     www.resched.edu       Rio Hondo College     www.steck.eca.us       San Bernardino Community College District     www.steck.eca.us       San Josef Evergreen Community College     www.www.steck.eca.us       San Josef Evergreen Community College     www.www.seck.edu       Santa Monica College     www.seck.edu       Santa Monica College     www.www.s	La Sierra University	www.lasierra.edu
Los Angeles County College of Nursing and Allied Health       www.ladhs.org/lacusc/lacnah         Los Angeles Mission College       www.latte.du         Los Angeles Trade-Technical College       www.latte.du         Los Medanos College       www.losmedanos.cdu         Mt. San Anionio College       www.misac.edu         Mt. San Anionio College       www.misac.edu         Mt. San Anionio College       www.misac.edu         National Hispanic University       www.misac.edu         Palo Verde Community College       www.palomar.edu         Palo Verde Community College       www.madete.edu         Palo Verde College       www.misede.edu         Palo Verde College       www.misede.edu         Redelty College       www.misede.edu         Riverside Community College District       www.www.secd.ecc.a.us         San Bernardino Valley College       www.www.dude.edu         San Joaquin Delta Community College District       www.secd.ecc.a.us         San Joaquin Delta Community College District       www.secd.ecc.a.us         San Joaquin Delta Community College District       www.secd.edu         Sanata Anci College       www.sec.edu         Sanata Anci College       www.sec.edu         Southwestern College       www.sec.edu         Southwestern College       www.s		
Los Angeles Trade-Technical College       www.lamission.edu         Los Medanos College       www.lamidanos.edu         Mt. San Antonio College       www.losmedanos.edu         Mt. San Jacinto College       www.nosmedanos.edu         National Hispanic University       www.nosmedanos.edu         Palow College       www.paloverde.edu         Palowar College       www.paloverde.edu         Palowar College       www.paloverde.edu         Palomar College       www.paloverde.edu         Palomar College       www.paloverde.edu         Recelley College       www.robendo.edu         Riverside Community College District       www.www.robendo.edu         San Bernardino Community College       www.slexed.ecc.a.us/sbvc         San Jaosé Evergreen Community College District       www.slexed.ecdu         Santa Ana College       www.sex.edu         Santa Ana College       www.sex.edu         Santa Ana College       www.sex.edu         Ventura College       www.www.www.sex.edu         Southwestern College       www.www.www.www.uwww.wwwwwwwwwwwwwwwww		
Los Angeles Trade-Technical College       www.lattic.edu         Los Medanos College       www.losmedanos.edu         Mt. San Antonic College       www.nisc.edu         Mt. San Antonic College       www.nisc.edu         Mt. San Antonic College       www.nisc.edu         National Hispanic University       www.nisc.edu         Palo Verde Community College       www.nisc.edu         Palo Verde Community College       www.palomer.edu         Pasadena City College       www.palomer.edu         Reedley College       www.palomer.edu         Reedley College       www.reedlevcollege.edu         Riverside Community College Riverside City       www.sbccd.ec.ea.us         San Bernardino Valley College       www.sbccd.ec.ea.us         San Bernardino Valley College       www.sbccd.ec.ea.us         San Joaquin Delta Community College District       www.sigccd.org         Santa Ana College       www.sigccd.org         Santa Ana College       www.sigccd.org         Santa Ana College       www.suc.cc.aaus         University of La Verne       www.suc.cc.aaus         University of La Verne       www.wac.edu         West Hills Community College       www.wac.edu         West Hills Community College       wwww.www.wac.edu         West Hills Commun		
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Mt. San Jacinto College       www.msjc.edu         National Hispanic University       www.nanatcollege.du         Oxnard College       www.paloverde.edu         Palo Verde Community College       www.paloverde.edu         Palomar College       www.palowaredu         Pasadena City College       www.pasadena.edu         Reedley College       www.reedlevcollege.edu         Riverside Community College Riverside City       www.reedlevcollege.edu         San Bernardino Community College District       www.www.reedlevcollege.edu         San Joagin Delta Community College District       www.wixerangus.3ku.edu         San Joagin Delta Community College District       www.seced.ec.ca.us/sbvc         San José/Evergreen Community College District       www.sec.edu         San José/Evergreen Community College District       www.sec.edu         San José/Evergreen Community College District       www.sec.edu         Santa Monica College       www.sec.edu         Southwestern College       www.sec.edu         Southwestern College       www.sec.edu         Vietor Valley College       www.weentracollege.edu         Wiets Hills Community College       www.weentracollege.edu         West Hills Community College       www.weentracollege.com         West Los Angeles College       www.weentracollege.com		
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Reedley College       www.reedleycollege.edu         Rio Hondo College       www.riohondo.edu         Riverside Community College District       www.sbecd.ec.ea.us         San Bernardino Community College District       www.sbecd.ec.ea.us         San Bernardino Valley College       www.sbecd.ec.ea.us         San Bernardino Valley College       www.sbecd.ec.ea.us         San José/Evergreen Community College District       www.sieced.edu         San José/Evergreen Community College District       www.sieced.edu         Santa Ana College       www.sinc.edu         Santa Ana College       www.sinc.edu         Southwestern College       www.senc.edu         Southwestern College       www.uerture.edu         University of California Merced       www.www.uew.uew         University of La Verne       www.www.www.uew         Victor Valley College       www.www.westhillscollege.com         West Hills Community College       www.www.westhillscollege.com         West Hills Community College District       www.www.www.westhillscollege.com         Wordbury University       www.selet       www.westhillscollege.com         Wordbury University       www.selet       www.westhillscollege.com         Vosemite Community College District       www.westhillscoledu       wwww.westhillscollege.com <t< td=""><td></td><td>· · · · · · · · · · · · · · · · · · ·</td></t<>		· · · · · · · · · · · · · · · · · · ·
Rio Hondo College       www.riohondo.edu         Riverside Community College Riverside City       www.rcc.edu         San Bernardino Valley College District       www.shccd.cc.a.us         San Diego State University Imperial Valley       www.shccd.cc.a.us/shve         San Joaquin Delta Community College       www.ivcampus.sdsu.edu         San Joaquin Delta Community College District       www.sicca.dorg         Santa Monica College       www.snc.edu         Santa Monica College       www.snc.edu         Southwestern College       www.swc.cc.en.us         University of California Merced       www.wuw.swc.edu         Ventura College       www.venturacollege.edu         Victor Valley College       www.venturacollege.edu         Victor Valley College       www.venturacollege.com         West Los Angeles College       www.waka.edu         Whiter College       www.waka.edu         Woodbury University       www.woodbury.edu         Yosemite Community College District       http://www.rosemite.cc.a.edu         Colorado       mww.side.edu         Adams State College       www.weide.edu         Www.college of Denver       www.weide.edu         Otero Junior College Trinidad       www.col.edu         Colorado State Junioresity Pueblo       mww.colsc.edu		
Riverside Community College Riverside Citywww.rcc.eduSan Bernardino Community College Districtwww.sbeed.ec.ca.us/sbvcSan Bernardino Valley Collegewww.sbeed.ec.ca.us/sbvcSan Diago State University Imperial Valleywww.ivcampus.sdsu.eduSan Joaquin Delta Community Collegewww.deltacollege.eduSan Joaquin Delta Community College Districtwww.sieced.orgSanta Ana Collegewww.sieced.orgSanta Ana Collegewww.siece.eduSanta Monica Collegewww.siece.eduSuthwestern Collegewww.siece.eduUniversity of California Mercedwww.swc.cc.ca.usUniversity of La Vernewww.www.ubv.eduVictor Vallege Collegewww.wew.ubv.eduWest Hills Community Collegewww.westhillscollege.comWest Hills Community Collegewww.westhillscollege.comWest Hills Community Collegewww.westhillscollege.comWest Hills Community Collegewww.westhillscollege.comWoodbury Universitywww.westhillscollege.comWoodbury Universitywww.westhillscollege.comWoodbury Universitywww.westhillscollege.comYosemite Community College Districthttp://www.vosemite.cc.a.eduColoradowww.westhillscollege.comColoradowww.westhillecollegeCommunity College Districthttp://www.soec.eduColorado State University Pueblowww.ced.eduOtero Junior Collegewww.ced.eduTrinidad State Junior College Trinidadwww.ced.eduConmentity College O Denverwwww.ced.eduConmentity Coll		
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San Bernardino Valley College       www.sbeed.ec.ea.us/sbyc         San Diego State University Imperial Valley       www.viccampus.sdsu.edu         San Joaquin Delta Community College       www.deltacollege.edu         San José/Evergreen Community College District       www.sieced.org         Santa Ana College       www.sieced.org         Santa Ana College       www.sec.edu         Southwestern College       www.sec.ec.a.us         University of California Merced       www.www.www.cmerced.edu         University of La Verne       www.wew.www.weturacollege.edu         Victor Valley College       www.westhillscollege.com         West Hills Community College       www.westhillscollege.com         West Hills Community College       www.westhillscollege.com         West Los Angeles College       www.westhillscollege.com         Wodbury University       www.wodbury.edu         Yosemite Community College District       http://www.yosemite.cc.a.edu         Colorado       mwww.colostate-pueblo.edu         Colorado State University Pueblo       www.wew.cel.edu         Community College of Denver       www.wew.cc.edu         Wew www.cc.edu       www.cc.edu         Pueblo Community College Trinidad       www.wew.cc.commet.edu         Conrado State University Pueblo       www.witiadstate.edu		
San Diego State University Imperial Valleywww.ivcampus.sdsu.eduSan Joaquin Delta Community Collegewww.deltacollege.eduSan José/Evergreen Community College Districtwww.sigccd.orgSanta Ana Collegewww.sac.eduSanta Monica Collegewww.sac.eduSouthwestern Collegewww.smc.eduSouthwestern Collegewww.smc.eduUniversity of California Mercedwww.uemerced.eduUniversity of La Vernewww.uemerced.eduVictor Valley Collegewww.vec.eduVictor Valley Collegewww.we.ceturacollege.eduWest Hills Community Collegewww.we.cetuWest Hills Community Collegewww.we.cetuWoodbury Universitywww.woodbury.eduYosemite Community College Districthttp://www.yosemite.cc.a.eduColoradoColoradoAdams State Collegewww.colostate-pueblo.eduColorado State University Pueblowww.uelec.eduOutior College of Denverwww.uelec.eduWww.ycic.eduwww.ycic.eduPueblo Community College Trinidadwww.uelec.eduConnecticutmww.ccc.comment.eduConrecticutmww.ccc.comment.eduConrecticutwww.ccc.comment.eduBarry Universitywww.ccc.comment.eduFloridamww.ccc.comment.eduFloridawww.fiu.eduBroward Community College District Administrative Officeswww.trini.albizu.eduFlorida International Universitywww.fiu.edu		
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		www.heritage.edu

#### **Pre-Professional Publications**

There are several publications that are aimed at steering minorities into successful engineering careers, such as *Hispanic Engineer*<sup>27</sup>, *Tecnica*<sup>28</sup>, *Black Engineer*<sup>29</sup>, *NSBE*<sup>30</sup>, *SHPE*<sup>31</sup>. Some have pre-college versions, such as *NSBE Bridge*<sup>32</sup>. And some are targeting the professional minority engineers, e.g. *Career Engineer*<sup>33</sup>.

ASEE publishes *Engineering Go For It!*<sup>1</sup> Targeting the K-12 students.

#### **Resources for Finding Funding, Scholarship and Fellowship**

The U.S. Department of Education provides the Free Application for Federal Student Aid website<sup>34</sup> for students to apply for a variety of student financial aid programs, including Pell grants, Campus-based programs, Supplemental Education Opportunity grants, Work Study, Stafford, PLUS and Perkins loans.

Undergraduate and Graduate Scholarships in Naval Engineering can be found at <u>http://scholarships.fatomei.com/scholar2.html</u>

Undergraduate and Graduate Scholarship for women in Computer Science include the \$10,000 Google 2005Anita Borg Scholarships that can be found at <u>http://www.google.com/anitaborg/</u>

For African Americans doctoral students, the ASEE offers the Helen T. Carr Engineering Fellowships for African-Americans, funded primarily by GE Fund and NASA for \$10,000.

#### **Research Opportunities for Students and Faculty**

National Science Foundation<sup>35</sup> sponsors Engineering Research Centers, engineering-focused interdisciplinary centers in US universities that operate in close partnership with industry. For a complete list of current centers see reference<sup>36</sup>. A Best Practices Manual<sup>37</sup> is available online organized by management roles and functional areas, for anyone who would like to become involved or create new center.

#### **Resources for Graduate Students**

The National Science Foundation provides a number of programs for scholarships, fellowships and research experiences. The National Consortium for Graduate Degrees for Minorities in Engineering and Science (GEM) provides fellowships for minorities entering graduate programs either at the masters or doctoral levels, 1 year and 5 years of support respectively, that pays tuition, a stipend and provides a paid summer internships<sup>38</sup>.

#### **Master Fellowships:**

NSF's Division of Graduate Education (DGE) provides annually about 1,000 Graduate Research Fellowships<sup>39</sup> Including Women in Engineering and Computer and Information Science Program funding \$40,500 annually: \$30,000 stipend and \$10,500 cost of education allowance per award. The grants provide 3 years of support leading to a masters or doctoral degree for students in the earliest stages of their graduate study. Students may apply during the senior year of college, prior to or during the first year of graduate school, and at the beginning of the second year of graduate school. Applicants must have completed no more than a year of full-time graduate study or the equivalent in part-time study. Applicants must be US citizens or nations (native resident of a US commonwealth or territory, e.g., American Samoa, Guam, Puerto Rico, U.S. Virgin Islands, Northern Mariana Islands). Application deadlines for 2004 for Engineering were in December.

#### **Doctoral Fellowships:**

The U.S. Department of Defense (DoD) funds the National Defense Science and Engineering Graduate Fellowships<sup>40</sup>, which are portable and allow recipients to pursue graduate studies at a U.S. institution. This program has awarded 2,000 fellowship since its inception 16 years ago, and plans to fund about 180 3-year grants in April 2005 to students with demonstrated abilities in science and engineering, who will pursue a doctoral degree in or closely related to an area of DoD interest within one of the following disciplines: Aeronautical and Astronautical Engineering, Biosciences, Chemical Engineering, Chemistry, Civil Engineering, Cognitive, Neural, and Behavioral Sciences, Computer and Computational Sciences, Electrical Engineering, Geosciences, Materials Science and Engineering, Mathematics, Mechanical Engineering, Naval Architecture and Ocean Engineering, Oceanography, or Physics. Application deadline in 2005 is January 7, notifications are made late March.

NSF's Division of Graduate Education (DGE) provides annually about 1,000 Graduate Research Fellowships<sup>39</sup> Including Women in Engineering and Computer and Information Science Program funding \$40,500 annually: \$30,000 stipend and \$10,500 Cost of Education allowance per award. The grants provide 3 years of support leading to a master's or doctoral degree for students in the earliest stages of their graduate study. Students may apply during the senior year of college, prior to or during the first year of graduate school, and at the beginning of the second year of graduate school. Applicants must have completed no more than a year of full-time graduate study or the equivalent in part-time study. Applicants must be US citizens or nations (native resident of a US commonwealth or territory, e.g., American Samoa, Guam, Puerto Rico, U.S. Virgin Islands, Northern Mariana Islands). Application deadlines for 2004 for Engineering were in December.

NSF DGE provides Graduating Teaching Fellows in K-12 Education<sup>41</sup> allows institutions to provide funding for graduate fellowships that require the student to serve as resources for teachers in science and mathematics instruction. Funding for initial projects is given for up to three years with potential to apply for follow-on project of up to five years. Follow the referenced link to find the institutions that can provide this opportunity.

NSF DGE also runs the Integrative Graduate Education and Research Training (IGERT)<sup>42</sup> grants. Universities receiving an IGERT grant have unique funding opportunities for their doctoral students with sizable stipends.

ASEE – Helen T. Carr Fellowships for African-Americans<sup>43</sup>: up to \$10,000 per year to students who are pursuing a doctoral degree. Upon doctoral degree completion, fellow is committed to return to one of the HBEC institutions.

#### **Resources for International Graduate Studies and Exchange Opportunities:**

The Erasmus Mundus program was created by the European Union to offer dual- or multiple-Masters Degrees, where students attend 2 or more universities in different countries. The students learn and study in two languages. Some of the programs have technical programs taught all in English and the student learns and practices a second language in language and culture classes. The programs have scholarships in each program for non-European Union countries, which they call third countries. The stipends total about \$25,000 a year for the Master student on scholarship. There are also opportunities for the European students and faculties to research or study up to six months in third countries if the third country institution becomes a partner institution to the Erasmus Mundus program. There are also opportunities for faculty in third countries to participate in the programs as guest faculty for short periods. The main link is <a href="http://europa.eu.int/comm/education/programmes/mundus/projects/index\_en.html">http://europa.eu.int/comm/education/programmes/mundus/projects/index\_en.html</a>

The listing of each program is shown in Table 7 organized by the year of the inception of the program. The engineering programs appear in bold.

Table 7. Erasmus Mundus Dual-Degree European Masters Programs
Erasmus Mundus Masters Programs approved to begin in 2004
ALGANT - Algebra, Geometry and Number Theory
CoMundus - European Master of Arts in Media, Communication and Cultural Studies
EMCL - European Masters Clinical Linguistics
EMMS - Joint European Masters Programme in Materials Science
EuMI - European Master in Informatics
EURO-AQUAE - Euro Hydro-Informatics & Water Management
European Joint Master in Water and Coastal Management
European Legal Practice - LL.M. Eur
European Master in Law and Economics
European Masters Program in Computational Logic
HEEM - European Masters Degree in Higher Education
IMRD: Erasmus Mundus International Master of Science in Rural Development
International Master in Quaternary and Prehistory
MEEES - Masters in Earthquake Engineering & Engineering Seismology
MEEM - Mechanical Engineering Erasmus Mundus Masters Course
MERIT - Master in Research in Information Technologies
MSc EF Master of Science in European Forestry
NOHA MUNDUS - European Masters in International Humanitarian Aid
tropEd - European Master of Science Programme in International Health
Erasmus Mundus Masters Programs approved to begin in 2005

AMASE: Joint European Master Programme in Advanced Materials Science and Engineering

EMMAPA: Erasmus Mundus Master in Adapted Physical Activity

EMM-Nano. Erasmus Mundus Master of Nanoscience and Nanotechnology

Erasmus Mundus Masters – Journalism and Media within Globalization: The European Perspective

EuMAS - European Masters Course in Aeronautics and Space Technology

EUROMIME: Master européen en Ingénierie des Médias pour l'Education

European Master in Global Studies

GEM: Geo-information Science and Earth Observation for Environmental Modelling and

#### <u>Management</u>

MA SEN, Special Education Needs

Master International "Vintage", Vine, Wine and Terroir Management

Master Mundus: Crossways in European Humanities

Master of Applied Ethics

Master of Industrial Mathematics

MESPOM: Environmental Sciences, Policy and Management

MSc in Network and e-Business Centred Computing

SEFOTECH.nut: European MSc Degree in Food Science, Technology and Nutrition (no scholarships for third-country participants in 2005)

SpaceMaster - Joint European Master in Space Science and Technology

Erasmus Mundus Masters Programs approved to begin in 2006

AGRIS MUNDUS - Sustainable Development in Agriculture Masters

ATOSIM : Atomic Scale Modelling of Physical, Chemical and Biomolecular Systems

CoDe - Joint European Master in Comparative Local Development

EMIN - Economics and Management of Network Industries

Erasmus Mundus Masters of Science in **Photonics** 

**EUROCULTURE** 

Europubhealth – European Public Health Master

FUSION-EP European Master in Nuclear Fusion Science and Engineering Physics

IMIM : International Master in Industrial Management

M.A. in Economics of International Trade and European Integration

MA LLL - European Master in Lifelong Learning: Policy and Management

Master of Bioethics

M.E.S.C.: Materials for Energy Storage and Conversion

Molecular nano- and bio-photonics for telecommunications and biotechnologies

MSPME, Masters in Strategic Project Management (European)

NordSecMob - Master's in Security and Mobile Computing

PHOENIX EM Dynamics of Health and Welfare

QEM: Models and Methods of Quantitative Economics

SUTROFOR - Sustainable Tropical Forestry Erasmus Mundus Masters

VIBOT – European Master in Vision and Robotics

WOP-P - Master on Work, Organizational and Personnel Psychology

#### **Resources for PostDoctoral Fellowships:**

Naval Research Laboratories (NRL) sponsors about 40 NRL PostDoctoral Fellowships<sup>44</sup> per year, administered by the ASEE, to research at the Naval R&D centers and laboratories:

- Naval Research Laboratory
   Washington, DC <u>www.nrl.navy.mil</u>
   Stennis Space Center, MS <u>www.nrlssc.navy.mil</u>
   Monterey, CA <u>www.nrlmry.navy.mil</u>
   Lab Description: http://www.asee.org/resources/fellowships/nrl/nrl-0000.cfm
- Naval Air Warfare Center/Weapons Division China Lake, CA Lab Description: <u>http://www.asee.org/resources/fellowships/nrl/nawc-ca.cfm</u> Home page: <u>www.nawcwpns.navy.mil</u>
- Naval Air Warfare Center/Naval Training Systems Center Orlando, FL Lab Description: <u>http://www.asee.org/resources/fellowships/nrl/nawc-fl.cfm</u> Home page: <u>www.ntsc.navy.mil</u>
- Naval Air Warfare Center/Aircraft Division
   Patuxent River, MD
   Lab Description: <u>http://www.asee.org/resources/fellowships/nrl/nawc-md.cfm</u>
   Home page: <u>www.nawcad.navy.mil</u>
- Naval Facilities Engineering Service Center
   Port Hueneme, CA
   Lab Description: <u>http://www.asee.org/resources/fellowships/nrl/nfesc.cfm</u>
   Home page: <u>www.nfesc.navy.mil</u>
- Naval Surface Warfare Center/Carderock Division Bethesda, MD Lab Description: <u>http://www.asee.org/resources/fellowships/nrl/nswc-md.cfm</u> Home page: <u>www.dt.navy.mil/div/homepage.html</u>
- Naval Surface Warfare Center/Dahlgren Division
   Dahlgren, VA
   Lab Description: <u>http://www.asee.org/resources/fellowships/nrl/nswc-va.cfm</u>
   Home page: www.nswc.navy.mil
- Naval Surface Warfare Center/Dahlgren Division
   Panama City, FL
   Lab Description: <u>http://www.asee.org/resources/fellowships/nrl/nswc-va.cfm</u>
   Home page: <u>www.nswc.navy.mil</u>
- Naval Surface Warfare Center/Indian Head Division Indian Head, MD

Lab Description: <u>http://www.asee.org/resources/fellowships/nrl/nswc-indian.cfm</u> Home page: <u>www.ih.navy.mil</u>

 Space and Naval Warfare Systems Center San Diego, CA Lab Description: <u>http://www.asee.org/resources/fellowships/nrl/snwsc.cfm</u> Home page: <u>www.spawar.navy.mil/sandiego</u>

North Atlantic Treaty Organization (NATO) offers Advanced Study Institutes (ASI)<sup>45</sup>, and NSF offers travel awards of \$1,000 each to attend. NSF-NATO Postdoctoral Fellowships for Scientists from NATO Partner Countries<sup>46</sup> funds scientists and engineers from NATO partner countries, who are within five years of their doctoral degree and are nominated by a scientific or engineering advisor at a US institution. Deadline has been in the beginning of December. For other NATO Fellowships see Reference<sup>47</sup>.

# **Resources for Transitioning to Faculty or Administrative Positions**

There are several web sites that specialize in advertising academic or administrative positions<sup>48,</sup> <sup>49, 50</sup>. The best source for finding Assistant Professor positions is the premier publication targeted to the particular engineering specialty, for example ACM for Computer Science. There are several sources for profiling universities<sup>51, 52, 53</sup>. The Oklahoma State University salary survey provides low, median and high salaries for professors at different ranks organized by discipline<sup>54</sup>. The Chronicle of Higher Education<sup>55</sup> provides median salary data by institutional type (doctoral, master's, baccalaureate, or 2 year)<sup>56</sup>.

# **Resources for Higher Education Faculty**

For advancement and recognition in their profession, faculty must document excellence in at least one their areas of assigned responsibility: teaching, service and research. There are many awards offered by the engineering professional organizations for recognition at different career stages, such as the ASEE Section and Division awards for teaching, service and best paper.

For faculty development: A non-profit organization established in 1944, the International Engineering Consortium<sup>57</sup> publishes a free monthly newsletter and provides extensive, free, on-line educational programs in high-tech areas.

U. S. Air Force Summer Faculty Fellowship Program<sup>58</sup>, administered by the ASEE, offers 8-12 week research residencies at participating Air Force Research Facilities for full-time science and engineering faculty at U.S. colleges and universities. It provides mentoring under Air Force researchers to faculty who are citizens or legal permanent residents of the U.S. Research is conducted at an Air Force Research Laboratory, the U.S. Air Force Academy, or the Air Force Institute of Technology. Participants receive a weekly stipend depending on their academic rank (in 2005 it varies from \$1,250/week for Assistant Professors to \$1,650/week for Professor). Additional the participant receives a temporary moving allowance and a \$50/day expense allowance for those with more than a 50 mile commuting distance. Application deadline in 2005 is: January 7 and notification is made by March.

NASA also sponsors a NASA Faculty Fellowship Program (NSFF)<sup>59</sup> administered jointly by ASEE and the Universities Space Research Association(USRA). It is a 10 week summer research residency at participating NASA research centers. It combines two successful former and long running NASA programs, the NASA/ASEE Summer Faculty Fellowship Program and the NASA/USRA Joint Venture (JOVE) program. The stipend is \$1,200/week, and provides relocation allowance of \$1,500, plus travel expenses of up to \$1,000. Application deadline in 2005 is: February 1, and notification is mid-March.

# Resources for Finding Grant Opportunities in Engineering, Technology and Education

Grants.Org and SchoolGrants.Org list grants for engineering and technology education.

BellSouth edu.pwr3 is a 2 year \$10 million program of the BellSouth Foundation<sup>60</sup> to help school leaders, teachers and students fully harness the power of technology for learning.

NSF DGE provides Graduating Teaching Fellows in K-12 Education<sup>41</sup> allows institutions to provide funding for graduate fellowships that require the student to serve as resources for teachers in science and mathematics instruction. Funding for initial projects is for up to three years with potential to apply for follow-on project of up to five years. A Letter of Intent is required. In 2004 the deadline was May 05 with full proposal due June 02.

NSF DGE also runs the Integrative Graduate Education and Research Training (IGERT)<sup>42</sup> grants. Universities receiving an IGERT grant have unique funding opportunities for their doctoral students with sizable stipends. Faculty and Administrators you want to apply for funding for their universities be advised that the deadlines for 2005 are: February 4 preliminary proposal, August 25 formal proposal.

Grants.Gov provides an electronic venue for searching for grant opportunities in over 900 Federal grant programs offered by 26 Federal grant-making Agencies

# **Resources targeting Minorities and Women**

The GE Faculty for the Future program (see <u>http://www.facultyforthefuture.org</u>) is a ten year, \$20 million initiative of the GE Foundation and WEPAN to increase the number of women and under-represented minorities faculty in engineering, related sciences and business. It has assisted nearly 200 students, who have earned PhD degrees and accepted faculty positions with over 900 students in the pipeline. The website links a diverse pool of women and under-represented minority candidates from engineering, science, and business with faculty and research positions at universities across the country.

#### **Research on Underrepresented Minorities in Science and Engineering**

The National Science Foundation (NSF) provides a demographics figures and tables on women, minorities and persons with disabilities in Science and Engineering at <a href="http://www.nsf.gov/sbe/srs/wmpd/list.htm">http://www.nsf.gov/sbe/srs/wmpd/list.htm</a>. The National Academy of the Sciences Committee on Women in Science and Engineering publishes statistics at

<u>http://www.nsf.gov/sbe/srs/wmpd/list.htm</u>. A faculty study on gender equity and climate at Research 1 institutions is at <u>http://www7.nationalacademies.org/cwse/gender\_faculty\_links.html</u>.

The *Journal of Women and Minorities in Science and Engineering* is published by Begell House, Inc., 145 Madison Ave., NY, NY 10016-7892. Phone: 212 725-1999; Fax: 212 213-8368. See <u>http://www.begellhouse.com</u>. This journal publishes original, peer-reviewed papers on innovative ideas and programs, scientific studies, and formulation of concepts related to education, recruitment, and retention of underrepresented groups in science and engineering.

#### **Networks for Women**

The National Academy of Sciences Committee on Women in Science and Engineery keeps a directory of organizations encouraging women in science and engineering. Organized by discipline: <u>http://www8.nationalacademies.org/cwse/ViewbyDiscipline.asp</u>; and organized by title: <u>http://www8.nationalacademies.org/cwse/Viewbytitle.asp</u>.

- Association for Women in Computing promotes the advancement of women in the computing professions. <u>http://www.awc-hq.org</u>
- Sisters in Science is an NSF-funded program seeking to increase elementary school girls' interest and achievement in science and mathematics, to create a more positive learning climate for minority school girls and their families, and to increase parents' understanding of their influence in promoting girls' interest and achievement in science and mathematics. (see <a href="http://www.temple.edu/SIS/">http://www.temple.edu/SIS/</a> )
- Systers Online Includes more than 2550 members from 38 countries, maintained by the Anita Borg Institute. It is largest all-female online community of women in computer science and was the original online community specifically designed for women in computing. (see <a href="http://www.iwt.org/systers.html">http://www.iwt.org/systers.html</a> and <a href="http://www.systers.org/">http://www.systers.org/</a>)
- WEPAN Women in Engineering Programs and Advocates Network WEPAN's homepage is at <a href="http://www.engr.washington.edu/~wepan/">http://www.engr.washington.edu/~wepan/</a>. It sponsors the project: *MentorNet*, the National Electronic Industrial Mentoring Network for Women in Engineering and Science, available at <a href="http://www.mentornet.net/">http://www.mentornet.net/</a>.
- WISE Campaign Women Into Science and Engineering has initiatives and publications to give girls and women information about opportunities and careers in Science, Engineering and Technology. Their web site is located at <a href="http://www.awise.org/">http://www.awise.org/</a>. Their address is WISE, 22 Old Queen Street, London UK SW1H 9HP. Telephone: 020 7227 8421. Fax: 020 7227 8401. Email: <a href="mailto:wisecampaign@semta.org.uk">mailto:wisecampaign@semta.org.uk</a>
- WISENET: Women in Science and Engineering Network The focus of this group is issues relevant to the education and employment of women in the sciences, mathematics, and engineering. To subscribe, send a message to listserv@UICVM.CC.UIC.EDU, no subject, with the message "subscribe wisenet first name last name".

- WITI: International Network of Women in Technology An organization committed to supporting professional development, personal growth and self-improvement for women in science and technology. WITI maintains a substantial Web site called *The WITI Campus* at <u>http://www.witi.com</u> and also offers a free electronic newsletter called *The Strategist Online* available at <u>http://www.witi.com/Center/Offices/Witinews/Strategist/</u>. Internet: witirequest@aero.org, gillam@aero.org
- Women in Engineering Program Advocates Network (WEPAN) Founded to provide greater access for women to careers in engineering. Assists colleges and universities to establish innovative programs or expand existing programs. WEPAN includes representatives from industry, government and academia. For more information write: *WEPAN member services, c/o Purdue University, 1284 CIVL Building, Room G293, West Lafayette, IN 479071284. Phone: (317) 494-5387. Fax: (317) 496-1349. Email:/wiep@ecn.purdue.edu*
- Women in Mathematics Information Server is an activity of the Mathematical Association of America Committee for the Participation of Women. Useful links can be found at <a href="http://www.mystery.com/WAM/network/Index.html">http://www.mystery.com/WAM/network/Index.html</a>. for events such as Women Count Conference, Mathematics Awareness Week, Expanding Your Horizons in Science and Mathematics, Math Options, Sonia Kovalevsky Days and other events sponsored by MAA and other organizations, as well as other useful resources.
- WOMUNSCI Women Undergraduates in Science –WOMen UNdergraduates in SCIence is a mailing list for discussing increasing participation of undergraduate women in science. Membership is open to college science educators and administrators (of both genders) and women undergraduates interested in science. To subscribe to WOMUNSCI, send mail to majordomo@cs.umass.edu with subscribe womunsci your-email-address-here (your-name-here) in the body of the message, the subject line is ignored.

#### **Resources for Engineering Deans and Chairs**

The American Society of Engineering Education publishes annually *Profiles of Engineering and Engineering Technology Colleges*<sup>61</sup>, which provides data on enrollment, degrees awarded, faculty and research expenditures at the undergraduate and graduate levels. The AAES publishes the *Engineering & Technology Degrees* every year, with data of the number of engineering students awarded degrees in the US in engineering and engineering technology. The Harris Poll conducts a survey for the AAES, *American Perspectives on Engineers and Engineering*, which also provides trend data.

#### Conclusions

The over 500 links listed in this paper point to resources for engineering education. Currently, there is not one site where the student, parent, educator, administrator, counselor, or professional engineer can go to find them, especially those targeting minorities. Lack of information translates to loss opportunities. This paper continuous the research of resources by the ASEE MIND (Minorities in Engineering Division), and presents them in a concise document. Emails

to the author at <u>petrie@fau.edu</u> with information on additional links or information are greatly appreciated.

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- 10. La Familia Network, http://lafamilianet.net/
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