

**The National Society of Black Engineers**



**National Academic Excellence Committee**

**I** ncreasing  
**M** inorities  
**A** ttaining  
**G** raduate  
**E** ducation



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This section contains information on research opportunities that were available in 2000 to students studying in engineering and related fields. Deadlines may be different for 2001. If any of these opportunities are no longer available, please notify either your regional or national Academic Excellence Chair.

#### ***Summer Undergraduate Program in Engineering Research at Berkeley***

The Summer Undergraduate Program in Engineering Research at Berkeley (SUPERB) offers outstanding underrepresented engineering students the opportunity to gain research experience by participating in research projects with engineering faculty and graduate students. Upon completion of this program students will be better prepared and motivated to attend graduate school. SUPERB is targeted to students of color, first-generation college students, educationally disadvantaged students, or students from historical minority institutions.

#### **Eligibility:**

The program targets students who have completed some upper division coursework in one of the following disciplines: Bioengineering and related Bioengineering disciplines, Civil Engineering, Electrical Engineering & Computer Sciences, and Mechanical Engineering.

#### **Awards:**

SUPERB awardees will spend eight weeks on UC Berkeley's campus during the summer to work on a research project in their area of interest. Each participant will have a faculty and graduate student mentor who will supervise their work and provide guidance. Participants will receive a \$3,000 stipend, room and board in university housing, and up to \$600 for travel expenses.

#### **Date of Appointment:**

June 12 - August 6, 2000

#### **For more information contact:**

Marie Mayne  
SUPERB Program  
312 McLaughlin Hall, College of Engineering  
Center for Underrepresented Engineering Students (CUES)  
University of California, Berkeley  
Berkeley, CA 94720-1702  
(510) 642-1734, Fax: (510) 643-5600  
email: [mayne@coe.berkeley.edu](mailto:mayne@coe.berkeley.edu)

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### ***The Summer Undergraduate Research in Engineering/Science Program at Georgia Tech***

SURE is a ten-week summer research program designed to attract qualified minority students into graduate school in the fields of engineering and science. Approximately thirty students of at least junior-level undergraduate standing are recruited on a nationwide basis and paired with both a faculty and a graduate student mentor to undertake research projects in the College of Engineering, College of Sciences, and the Packaging Research Center. The students are housed on campus, and in addition to a \$500 travel allowance, are provided with a meal plan and a \$4,000 stipend. Aside from their own research projects, the participants are provided with a series of seminars and field trips to expose them to the various topics of interest, both at Georgia Tech and in the Atlanta area.

At the conclusion of the program, the students prepare both oral and written summaries of their research projects. The program has received highly favorable evaluations from the past participants. It is hoped that this unique experience will encourage these students to become applicants for graduate school in ensuing years.

For more information, visit the webpage at  
<http://users.ece.gatech.edu:80/~gmay/sure.html>

### ***Massachusetts Institute of Technology***

The Massachusetts Institute of Technology offers a summer research program for students interested in mathematical, physical, and biological sciences. Participants work for 10 weeks in MIT laboratories under the direction of scientists and engineers. The program provides a stipend, travel expenses and housing. Students must have completed their sophomore year with at least a B average, have a genuine interest in research and teaching as a career in mathematics or the physical or biological sciences, and be from one of the following ethnic groups: African American, Native American, Mexican American or Puerto Rican. For more information and application materials, contact:

Massachusetts Institute of Technology  
Summer Research Program  
Graduate Education Office  
Room 3-138  
Cambridge, MA 02139-4307

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or contact:

Dean Roy Charles  
MIT 3-138  
77 Massachusetts Ave.  
Cambridge, MA 02139  
(617) 253-9462  
E-mail: [mit-srp@mit.edu](mailto:mit-srp@mit.edu).

Number of Positions: 25-40

Deadline: **mid December**

### *Colgate-Palmolive*

Colgate-Palmolive offers a Corporate Technology Summer Program for college juniors and seniors to learn within a corporate setting. Participants are responsible for a research project under the guidance and support of a mentor.

The program provides compensation for the work and dormitory housing at reasonable cost. The program is open to students majoring in chemistry, biochemistry, life sciences, polymer science, chemical engineering, mechanical engineering, and packaging engineering. To apply, send a resume, transcripts, and recommendation letter to:

Summer Internship Program  
Colgate-Palmolive Company  
Code S1-MG  
909 River Rd.  
P.O. Box 1343  
Piscataway, NJ 08855-1343  
(732) 878-7936, fax (732) 878-7443.

Number of Applicants: 500-600. Number of Positions: 12-15.

Deadline: **March 4.**

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#### ***Environmental Careers Organization***

ECO hires college juniors and seniors to work as environmental interns. Interns assist in shipboard research, perform laboratory tests on core samples, and participate in computer analysis of core and acoustic data. The internship runs for 12 weeks and pays \$300-\$600 per week. Interns generally have backgrounds in engineering (civil, environmental, or chemical); environmental health/industrial hygiene; computer science; a biological science, earth science, or physical science; environmental science; planning and public administration, or related fields. Applicants should have an excellent academic record, good computer skills, and experience in laboratory analysis. For more information, contact:

Environmental Careers Organization  
286 Congress St., 3rd Floor  
Boston, MA 02210

About 1 applicant in 7 receives an internship.

#### ***GTE Laboratories, Inc.***

GTE Laboratories offers Industrial Undergraduate Research Participation Projects. Projects run for 10 weeks. Participants receive a stipend of \$330 per week, along with room and board at a local university, and travel expenses. Students must participate in a minimum of 40 hours per week. The following positions have been available to mathematics students in the past:

- Traffic Analysis in telecommunications. Knowledge of C is required.
- Provisioning of high-speed asynchronous transfer mode (ATM) networks.
- Wireless usage analysis. Experience with DOS is helpful.
- Application of discrete choice models to user interface design.
- UNIX/Mac/Newton shell.

Applicants must have finished their sophomore year in college with a GPA of 3.0 or better. For more information and application materials, contact:

Hida Khamsi  
GTE , IURP-98 Office  
40 Sylvan Rd.  
Waltham, MA 02254  
(617) 466-2924

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Current projects and additional information are available at <http://lab.gte.com/iurp>.  
Number of Positions: 16. Deadline: **March 6**.

#### *John F. Kennedy Space Center--NASA.*

NASA sponsors a six-week Space Life Sciences Training Program that is conducted by the Kennedy Space Center and Florida A&M University. The program is for college students interested in life sciences, bioengineering, or related fields. Participants gain insight into how space life sciences flight experiments are conducted, as well as explore current and future research opportunities. A stipend is paid. Applicants must be in one of the following majors: Animal Sciences, Biochemistry, Biology, Biophysics, Biostatistics, Chemistry, Computer Science, Ecology, Engineering, Environmental Science, Geology, Health Science, Life Sciences, Mathematics, Pharmacy, Physics, Plant Sciences, Psychology. For application materials, contact:

Program Director, Space Life Sciences Training Program  
Florida A&M University  
College of Pharmacy and Pharmaceutical Sciences  
106 Honor House  
Tallahassee, FL 32307, (850) 599-3636

Number of Applicants: 500. Number of Participants: 40.  
Deadline: **end of January**

#### *Lincoln Laboratory, Massachusetts Institute of Technology.*

The laboratory hires students in their Summer Internship Program that have completed their sophomore year to work as technical assistants in designing hardware, programming scientific instruments, and providing technical support. Technical assistants work for 10 paid weeks and housing is subsidized. Applicants should have a background in electrical engineering, physics, or computer science, and a minimum GPA of 3.0. Eligible minority groups include: African American, Hispanic, Mexican, Puerto Rican, and Native American. U.S Citizenship required. For more information and application materials, contact:

Paul F. Hezel  
MIT Lincoln Laboratory  
244 Wood St.,  
Lexington, MA 02173-9108  
(781) 981-7048

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Number of Applicants: 40-50. Number of Positions: 7-8

Deadline: **early March**

#### *Lunar and Planetary Institute--NASA Johnson Space Center*

The Institute invites students in the geosciences, physics, chemistry, engineering, computer science, and mathematics who have completed at least 50 hours of credit to participate in lunar/planetary research with scientists at the Institute and the NASA Johnson Space Center. The program runs for 10 weeks. Participants receive a stipend and a travel allowance. Selection is based on scholarship, curriculum, and experience; career objectives and scientific interest; and a match between the interests of the applicant and available research projects. To apply, send the following information:

- (1) name, address, and day and evening telephone number where you can be reached; permanent address and telephone number; school, class, GPA (A=4.0); Fall semester courses and GPA--if not available on the transcript; Date on which your spring semester ends; major field of study, three areas of interest from the potential areas of research listed above or from other areas of scientific research, and rank these from 1 to 3; information regarding relevant work experience or training (summer jobs, research assistantships, computer use or programming, photographic darkroom experience, specific instrumentation experience, etc.)
- (2) a brief biographical sketch
- (3) a description of academic goals, career plans, and scientific interests
- (4) a brief summary of why you wish to participate in the intern program; (5) official transcripts and three letters of recommendation covering academic achievement, career potential, and character (ask those providing references and transcripts to mail these directly to LPI to be received by the application deadline)

Send materials to:

LPI Summer Intern Program  
3600 Bay Area Blvd.  
Houston, TX 77058-1113

Questions can be addressed to Cecilia M. Hoelscher at (281) 486-2196  
[hoelscher@lpi.jsc.nasa.gov](mailto:hoelscher@lpi.jsc.nasa.gov), <http://cass.jsc.nasa.gov/lpiintern98.html>

Number of Applicants: 150-170. Number of Positions: 12.

Deadline: **early February**

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### *McDonnell Douglas*

McDonnell Douglas Aerospace (MDA) offers a Student Development Programs (SDP) for engineering junior and seniors. Participants work in the high-tech environment of one of McDonnell Douglas' divisions, including:

- McDonnell Aircraft Co.
- McDonnell Douglas Training Systems Co.
- McDonnell Douglas Aerospace Information Services Co.
- McDonnell Douglas Electronic Systems Co.
- McDonnell Douglas Missile Systems Co.
- McDonnell Douglas Corporate Office

Electrical and computer engineering students may apply for the following positions:

- Software Engineer--design, develop, and test computer systems, software, and firmware;
- Technology Engineer--research, analyze, develop radar, lasers, flight controls, design computer, communications, guidance, and other avionic/electronic systems;
- Test Engineer--evaluate, test, and integrate avionic/electronic systems;
- Manufacturing Engineer--N/C controls, robotics, process technology, CAM, tool design, etc.;
- Design Engineer--design digital and analog circuits for electronic support an test equipment; design, develop, and integrate crew stations, power subsystems, instrument panels.

Aeronautical engineering students may apply for the following positions:

- Technical Engineer--analytical assignments including aerodynamics, propulsion, structures, guidance and controls, etc.;
- Design Engineer--develop and integrate structural, mechanical, power, and fluid subsystems;
- Test Engineer--test and evaluate wind tunnel models, full-size vehicles, flight simulation programs.

Mechanical engineering students may apply for the following positions:

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- Design Engineer--structural, mechanical, equipment, and hydraulic subsystem design; liaison, flight simulation systems, and electronic packaging design;
- Test Engineer--test and evaluate materials, structures, subsystems, and full-size vehicles;
- Manufacturing Engineer--production planning and scheduling, tool design, and materials research and development;
- Technical Engineer--analytical assignments involving structures, material and process development, thermodynamics, reliability, propulsion.

Civil engineering students may apply to work in the analysis, design, development, and testing of A/C structures, and the design and layout of computing facilities.

Industrial engineering and industrial technology students may apply to work in assignments in manufacturing methods, systems, production planning facilities, estimating and quality assurance.

For more information and application materials, contact:

Student Development Programs  
McDonnell Douglas  
P.O. Box 516,  
Mailcode 2741130  
St. Louis, MO 63166

Deadline: **January 31**

### *Motorola*

Motorola offers a summer internship program to engineering students. The program provides participants with a salary, travel expenses, and a housing allowance for out of state students. Engineering interns work on assignments including (but not limited to): analog/digital/RR circuit design; development of hardware and software communication systems; design, modification implementation, and maintenance of applications software; and the mechanical design of product. Students may apply to three different locations. To apply, send a resume, transcript, and letter of reference to:

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Staffing Department  
8000 W. Sunrise Blvd.  
Ft. Lauderdale, FL 33322  
(954) 723-6477, fax (914) 723-5560; 1-800-327-0415

Number of Participants: 100

Deadline: **mid February.**

#### *National Renewable Energy Laboratory/Department of Energy*

NREL, jointly with the DOE and Association of Western Universities, offers summer internships to junior and senior college students. Applicants must be studying mechanical engineering, physics, chemistry, biochemistry, electrical engineering, and environmental science. NREL programs include:

- Materials Science and Engineering (Photovoltaics, Solar Radiation Research and Measurement)
- Mechanical and Industrial Technology (Thermal, Buildings, and Wind Research)
- Fuels and Chemicals Research and Engineering (Chemical and Biological Science)
- Energy and Environmental Analysis (Energy Policy, Planning and Economics)

Interns receive a stipend and travel expenses. Required application materials include: a list of colleges attended and cumulative, a resume indicating professional interests and career goals, copies of transcripts, letters of recommendation, and a statement of interest that includes relevant research experience. For more information and application materials, contact:

Human Resources Office  
National Renewable Energy Laboratory  
NREL, 1617 Cole Blvd.  
Golden, CO 80401-3393

Deadline: **Second week of March**

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#### ***National Science Foundation, Division of Astronomical Sciences: Research Experiences for Undergraduates (REU) Sites***

Sponsored by the National Science Foundation, specific sites provide undergraduate students with research experiences during the summer. The research conducted at these sites primarily focuses on topics in astronomy and astrophysics. Several sites also conduct research in physics and engineering. Contact the individual sites for current research opportunities.

#### ***National Science Foundation, Engineering Directorate: Research Experiences for Undergraduates (REU) Sites***

Sponsored by the National Science Foundation, specific sites provide research opportunities for undergraduate students during the summer. Contact the individual sites for information on current opportunities.

#### ***National Science Foundation, Division of Materials Research, Materials Research Science and Engineering Centers and Materials Research Laboratories***

Funded by the National Science Foundation, the Materials Research Science and Engineering Centers and Materials Research Laboratories conduct broad-ranging studies in all areas of materials research, including condensed matter physics. Specific Centers or Laboratories hire undergraduates each summer to join the research projects. Contact the individual sites for information on opportunities.

#### ***Princeton Plasma Physics Laboratory***

The Department of Energy began the National Undergraduate Fellowships in Plasma Physics and Fusion Engineering to provide outstanding undergraduate students in US colleges and universities an opportunity to participate in projects in the forefront of research and development of fusion energy. Funding supports a 10 week program for 25 students with each receiving a stipend of \$4,800 and travel expenses of up to \$1,000. Students' housing and meals during the first week of the program are provided. For more information and application materials, contact:

Science Education Program  
Princeton Plasma Physics Laboratory  
P.O. Box 451  
Princeton, NJ 08543  
(609) 243-2116

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Number of Applicants: 200. Number of Positions: 25

Deadline: **February 6**

#### *Woods Hole Oceanographic Institute*

The Institute offers a Summer Student Fellowship Program to undergraduate students completing their junior or senior year studying in fields of science or engineering, with a tentative interest in ocean sciences, oceanographic engineering, mathematics or marine policy. The program runs 10 to 12 weeks, from June to August, and provides a stipend. For more information, contact (508) 289-2709 or (508) 289-2950.

Number of Applicants: 300. Number of Participants: 30.

Deadline: **early February**

#### *CIC Summer Research Opportunities Program*

Minority undergraduates are invited to apply for a summer program designed to prepare them for graduate study and faculty careers. Eligible applicants are African Americans, Native Americans, Mexican Americans and Puerto Ricans who are sophomores or juniors majoring in any field. During the eight-to-ten week summer session, students work on a research project guided by a faculty mentor and are able to explore a topic of interest at one of 15 host CIC universities in Illinois, Indiana, Iowa, Ohio, Wisconsin, and Minnesota. Each student receives a stipend of at least \$2,500 for the summer, plus up to \$1,100 toward board and travel to and from the host institution. The faculty mentor may receive \$500 toward the cost of the student's research project.

#### *The FASEB/MARC Minority Faculty/Student Summer Fellowships Program*

The FASEB/MARC Minority Faculty/Student Summer Fellowship Program is funded by the Minority Access to Research Careers (MARC) Programs through the National Institute of General Medical Sciences (NIGMS). One of the most successful MARC activities for talented minority students is the summer internship at major research laboratories. The objective of these activities is to develop better teaching and research programs at minority institutions. FASEB has enhanced this objective by providing an opportunity not only for MARC students, but for their faculty research advisers as well, to jointly visit and learn new research techniques at prominent research laboratories during the productive summer "recess". Through the FASEB/MARC Minority

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Faculty/Student Summer Fellowships Program a host institution will be able to tailor experiences to the interests and abilities of the minority pair, for example:

- A host institution might share parts of research programs that can best be done by the students with proper supervision.
- A minority scientist would have the opportunity to work in an intense and state-of-the-art science research environment, learn new techniques, and conduct experiments not possible at the home minority institution.
- The summer program might offer the opportunity to investigate hypotheses, from the mind's eye to the bench, by providing access to advanced instrumentation, e.g., brain imaging techniques, electron microscopy, x-ray crystallography.

It is FASEB's goal that the educational experiences and research opportunities provided to the minority faculty/student pair will lead to continuing collaborations between faculty at minority institutions and major research laboratories, in addition to enhancing the ability of the faculty member and student to work more productively as a research team.

FASEB currently provides funding for 2 faculty/student pairs from minority institutions to visit a major research laboratory or institution to learn/update research techniques during the summer months. Faculty/student pairs from minority institutions that hosted a FASEB Visiting Scientist from the FASEB/MARC Visiting Scientists to Minority Institutions Program within the past two years are eligible to apply for these summer fellowships and scholarships.

#### ***Spring 2001 Energy Research Undergraduate Laboratory Fellowship (ERULF) and Student Research Participation Programs***

The U.S. Department of Energy is directly sponsoring research participation programs at Argonne as well as 18 other DOE facilities. The Division of Educational Programs (DEP) serves as the interface between the Department of Energy, Argonne National Laboratory (ANL) and the academic community. Within ANL are unique capabilities which afford numerous opportunities for domestic and international participants interested in energy research and training in science and technology. DEP remains a full partner with scientific divisions at ANL in identifying and providing educational opportunities for persons at all educational levels. It continues to make serious investments in expanded opportunities, for career pursuits by all, including women, people of color, economically

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disadvantaged and those with disabilities. While the focus of the programs is primarily on individuals, DEP collaborates with several universities, colleges, technical institutes, informal educational centers, consortia, and the precollege community. In support of the educational mission of ANL, DEP presents this information. The intent is to promote, develop, and facilitate educational and research interactions among ANL and interested institutions, organizations and agencies. The intended periods of program activity are the spring semester and summer of 2000. Your participation in programs described is invited and encouraged.

Harold Myron  
Division Director  
Division of Educational Programs  
(630) 252-4114  
hmyron@dep.anl.gov

Application Deadline: **October 1, 2000**

### *University of Oklahoma REU*

The University of Oklahoma's Human Technology Interaction Center (HTIC) has been funded by the National Science Foundation (NSF) to provide an interdisciplinary Research Experience for Undergraduates (REU) on human-technology interactions. Research fields in this program include:

Cognitive psychology  
Communications  
Social psychology  
Industrial engineering  
Computer science  
Library information studies  
History of science

#### ACTIVITIES

Students will participate in Research (approx. 20 hours per week)- You will work closely with a faculty member in one of the departments (listed above) that are associated with the HTIC.

- Team Research (approx. 10 hours per week) - You will participate in collaborative research with scientists and engineers from other disciplines.
- Collective Activities (approx. 10 hours per week) - You will attend activities like seminar series, workshop series, and special events.

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### STUDENT REQUIREMENT

1. Applicants may be at any level of undergraduate training, but preference will be given to those entering their 2nd or 3rd year.
2. Although this intensive research experience involves modern technologies, the successful applicant need not have had much research experience nor be technically sophisticated.
3. A keen interest in conducting research on human-technical systems, maturity, and an open-mindedness for multiple perspectives is sought.
4. Women and minorities are highly encouraged to apply.
5. The internship is a 40 hour a week commitment and may obligate the intern to some evening and weekend hours. Interns are prohibited from committing to other employment concurrent with the internship.
6. Undergraduate student participants supported with NSF funds must be citizens or permanent residents of the United States or its possessions. An undergraduate student is a student who is enrolled in a degree program (part-time or full-time) leading to a bachelor's degree. Students who are transferring from one institution to another and are enrolled at neither institution during the intervening summer may participate. High school graduates who have not yet enrolled and students who have received their bachelor's degrees and are no longer enrolled as undergraduates generally are not eligible.

DATES OF : June 1 - July 26

COMPENSATION: \$2000 + lodging/food

### LODGING/FOOD

Interns will stay at the University's two-bedroom, furnished apartments. The complex has swimming pool and tennis courts and it is also conveniently located to the myriad of athletic opportunities OU provides. Mass transit is available, as is plentiful parking for those choosing to bring a vehicle. Students will be provided a pre-paid cafeteria meal plan. Limited funds are available to help off-set travel to the REU. Request for funds should be included in the application.

APPLICATION: Application forms and information regarding the Summer Research Experience may be obtained from:

Dr. Randa L. Shehab  
Human-Technology Interaction Center  
School of Industrial Engineering  
202 West Boyd, Room 124  
University of Oklahoma

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Norman, OK 73019

Or use this online application form to start your application. Additional materials must still be submitted by mail.

Deadline: **April 1**

### *Research Experiences for Undergraduates in Lasers and Optics*

The Center for Research and Education in Optics and Lasers (CREOL) is pleased to announce that it is planning to run a National Science Foundation sponsored program of Research Experiences for Undergraduates (REU) during the summer of 2000. This is the ninth REU program sponsored by CREOL/NSF. The students selected for this program will have the opportunity to perform research projects alongside some of the world's foremost laser and optics researchers. The projects cover a range of topics in both science and engineering, including solid-state laser materials growth and spectroscopy, high energy/short pulse laser development, laser produced plasmas, optical signal processing, and optical switching circuits. Additionally, the REU participants will take specially designed short courses in Optics, Lasers and Interaction of Light with Matter. Other activities include weekly seminars, industrial visits, a course in Ethics in Research, and "round table" discussions between the REU participants and organizers. Some students will have the possibility of attending a national laser and optics conference. An International REU in Optics and Lasers is also being sponsored by CREOL and NSF. Students in this program will spend 12 weeks in a French laboratory.

Schedule: The summer program is expected to run from May 23 to August 11 (subject to revision). Stipends for the summer are expected to be \$3,800 with either accommodations provided or an allowance for housing. Some travel expenses are also available. The program is open to all students pursuing majors in science and engineering, but two semesters of Physics and Calculus are required (Juniors and Seniors majoring in Physics or Electrical Engineering will be most suited to the program.). A minimum GPA of 3.5/4.0 is recommended, but not an absolute requirement. Participants will be selected on the basis of academic merit, personal references and suitability for the program. Women, minorities, and persons with disabilities are especially encouraged to apply. This program is open to US citizens and permanent residents only.

For further information contact:

Dr. David Hagan  
Director, Summer Undergraduate Program  
School of Optics/CREOL  
University of Central Florida  
P.O. Box 162700

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Email: [hagan@creol.ucf.edu](mailto:hagan@creol.ucf.edu)

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