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1. ASME

To recognize and reward students whose FIRST experience has inspired an interest in pursuing an engineering career, ASME International (The American Society of Mechanical Engineers) will award one \$5,000 scholarship to a high school senior, active on a FIRST team, who is nominated by an ASME member engineer active with FIRST. This award will be for the first year of study (non-renewable) at an accredited* mechanical engineering or mechanical engineering technology program. The recipient will be announced at the FIRST National Championship.

1.1 ASME and FIRST

ASME International has promoted FIRST widely since 1996, when the two organizations signed an agreement of affiliation. ASME International is a 125,000 member professional organization, active for more than a century in supporting the profession of engineering, through establishing codes and standards, publishing technical journals, participating in educational accreditation, and hosting seminars and conferences. ASME is committed to promoting technological literacy, and supports FIRST as an outstanding means for engineers to be positively involved with young people and promote hands-on understanding of engineering.

1.2 Nomination and Student Eligibility

Member engineers of ASME may nominate one student per FIRST team. Students must be:

- Graduating high school seniors active on FIRST teams
- Planning to enroll full-time in an ABET-accredited or substantially equivalent* mechanical engineering or mechanical engineering technology program, no later than the fall after their senior year in high school.

1.3 Submission Information

1.3.1 Criteria

Nomination materials must include:

- A nomination letter from the ASME member engineer attesting to the student's technical, creative, and leadership contributions to the FIRST team
- Evidence of the student's outstanding academic performance (Resume with GPA information or transcript are both acceptable)
- Evidence of the student's financial need (Copies of Financial Aid application materials or other need-based scholarship supporting materials are acceptable).
- *Four (4) copies* of nomination materials listed above

*The college the student is planning to attend must have a mechanical engineering (ME) or mechanical engineering technology (MET) program accredited by the Accreditation Board on Engineering Technology (ABET). Questions about whether a given program has received this accreditation may be answered by the college or university, or by checking listings on the ABET web site (www.abet.org) or, for non-listed programs, contacting ASME (see above.)

1.3.2 Submission Deadline

Postmark submissions by March 1, 2001.

1.3.3 Address / Contact Information

Attn: Theresa Oluwanifise
Education Department
ASME International
Three Park Avenue, 23-S1,
New York, NY 10016-5990

Tel: 1-800-THE-ASME (1-800-843-2763)
Fax: 1-212-591-7143

E-mail: luwanifiset@asme.org

2. CLARKSON UNIVERSITY

FIRST and Clarkson University have established a scholarship to benefit one deserving student who has participated on a FIRST team during his or her high school years and who would like to attend Clarkson University. The student may enroll in any course of study at Clarkson University.

2.1 Scholarship Description / Requirements

Clarkson University will award a merit scholarship to a high school senior who has been a member of a FIRST team at their high school. The scholarship recipient will receive up to \$6,000 per year for four years upon enrollment at Clarkson University. The student must meet the academic requirements for admission to Clarkson University, as well as meeting requirements for scholarship retention. An eligible student will have a minimum overall high school average of 85. The recipient may be eligible for the Clarkson Leadership or Achievement Award, but no additional merit scholarship awards from Clarkson University. The student should apply for need-based aid through the Free Application for Federal Student Aid.

2.2 Submission Information

2.2.1 Criteria

To apply for the Clarkson University FIRST Scholarship, complete and/or submit the following:

- The regular application materials for admission to Clarkson University (Clarkson University will waive the \$30 application fee for FIRST scholarship applicants.)
- The Clarkson University FIRST Scholarship Application
You may copy the application located after the next page.
- Three recommendations (Two from high school teachers and one from an adult leader on your FIRST team.)
- An essay relating to your FIRST experience.

2.2.2 Deadline

Clarkson University must receive submissions no later than March 2, 2001.

2.2.3 Address / Contact Information

For more information or to request a Clarkson University FIRST scholarship and admission application package, please contact:

Office of Undergraduate Admission and New Student Financial Aid
Clarkson University
PO Box 5605
Potsdam, NY 13699

www.clarkson.edu
Email: admission@clarkson.edu
1-800-527-6577

2.3 About Clarkson University:

Clarkson University is in Potsdam, NY, a community in Northern New York State located between the Canadian cities of Montreal and Ottawa and the Adirondack Mountains. Clarkson is a private, four-year university with an enrollment of approximately 3,000 students.

The University offers technologically oriented programs in Business, Engineering, Liberal Arts, Science and Health Sciences. Pre-professional programs are available in law, medicine, physical therapy, dentistry and veterinary sciences. Interdisciplinary programs include Engineering and Management, Environmental Science and Policy (combination of science and liberal arts) and Project Arete (double major in business and liberal arts).

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Clarkson University seeks to admit students who have the commitment it takes to excel in the classroom and extracurricular activities. Students admitted at Clarkson University rank in the top 10% of all college-bound students nationally.

Clarkson University provides an environment emphasizing a team-based learning curriculum that develops the skills in high demand by industry as illustrated by the University's 96% placement rate. Students are encouraged to participate in undergraduate research, project-based teams, cooperative education, internship programs and study abroad. Class sizes are small with a student to faculty ratio of 16:1.



2.4 FIRST Scholarship Application

Personal Information:

Name _____
Address _____
City _____ State _____ Zip _____
Telephone (_____) _____ Social Security Number _____
High School _____
E-Mail _____

Submission Requirements/Deadline:

To apply for the 2001-2002 Clarkson University FIRST Scholarship, along with this completed form, you must:

- _____ Submit two (2) letters of recommendation from high school teachers.
- _____ Submit a letter of recommendation from an adult leader on your FIRST team.
- _____ Submit a 250-500 word essay on *one* of the following statements (please attach a separate page):
 1. Describe how you have benefited from your FIRST Robotics participation.
 2. Describe a problem that your team encountered and how it was resolved.
- _____ Complete a Clarkson University admission application. Clarkson University will waive the \$30 application fee for FIRST scholarship applicants.

Submissions must be received no later than March 2, 2001. Please send all submissions to:

FIRST Scholarship Committee
Clarkson University
Box 5605, Holcroft House
Potsdam, NY 13699-5605

If you have questions, please contact us at:

www.clarkson.edu or
Email: admission@clarkson.edu or
1-800-527-6577

3. DANIEL WEBSTER COLLEGE

In partnership, FIRST and Daniel Webster College have established a scholarship to benefit a deserving student who has participated on a FIRST team during his or her high school years and who would like to attend Daniel Webster College. The student may enroll in any course of study at Daniel Webster College.

3.1 Scholarship Description / Requirements

Daniel Webster College will award a merit scholarship in the amount of \$7500 per year for four years to a student who has been a member of a FIRST team at any high school in the country. The student must meet the regular academic requirements for admission as written in the college catalogue, as well as meeting requirements for scholarship retention. This scholarship is a merit scholarship. The recipient will not be eligible for additional merit scholarship awards from Daniel Webster College, but the student may apply for need-based financial aid.

3.2 Submission Information

3.2.1 Criteria

To apply for the 2001 Daniel Webster College - FIRST Scholarship, submit the following:

- A detailed resume highlighting your leadership and technical skills and potential.
- A recommendation from an adult leader on your FIRST team.
- A Completed Daniel Webster College Admissions Application packet. The college will waive the \$35.00 application fee.
- A 500-word essay on your reactions to one of the following three quotes:
 - a) “Leaders lead by example. They know how to set aggressive but achievable goals. They know the difference between desirable pressure and undesirable stress. And they know how to create an environment where people work hard because they enjoy what they are doing” – Unknown
 - b) “The most important thing is to keep the most important thing the most important thing.” – Stephen Covey
 - c) “Remember, the FIRST competition is not about building a robot, it’s about building a team.” - Vincent Wilczynski

3.2.2 Deadline

The Admissions office must receive your submission no later than March 1, 2001.

3.2.3 Address / Contact Information

Please send all submissions to:

Admissions Office
2001 Daniel Webster College -FIRST Scholarship
Daniel Webster College
20 University Drive
Nashua, NH 03063-1300

Phone: (603) 577-6600 or (800) 325-6876
web site: www.dwc.edu
E-mail address: admissions@dwc.edu

For a viewbook, course catalogue, and or application materials, contact the Director of Admissions at the above address.

3.3 About Daniel Webster College

Daniel Webster College’s project-oriented curriculums combine theory and application. Students who do well here have a can-do attitude, are willing to take the initiative to lead their teams in project work,

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and have a commitment to excel in the classroom. The recipient will be announced at the National Championship in April 2001.

Daniel Webster College awards the B.S. degree in several areas including aviation, business management, sport management, computer science, and information systems. The A.S. degree is awarded in engineering science and aeronautical engineering. The College has transfer agreements in engineering with UNH, UMASS-Lowell, Clarkson University, and Kettering University (formerly GMI).

4. DREXEL UNIVERSITY (8)

In partnership, Drexel University and FIRST have established eight merit scholarships for high school juniors. These scholarships will benefit deserving junior students who are actively involved on a competing FIRST team during their school junior year and who would like to attend Drexel University. The students may enroll in a full time undergraduate program of study at Drexel University. Scholarship winners will be announced at the National Championship in April 2001.

4.1 Scholarship Description / Requirements

Drexel University will award a merit scholarship in the amount of \$5,000 per year of attendance to eight junior students who are actively a member of a FIRST team at any high school in the country. Each junior student who applies for the scholarship must meet the regular academic requirements for admission as well as meeting requirements for scholarship retention. These scholarships are merit scholarships. The recipients will not be eligible for additional merit scholarships from Drexel University, however, the student may apply for need-based financial aid.

4.2 Submission Information

4.2.1 Criteria

To apply for one of the eight Drexel University 2001 scholarships, complete and / or submit the following:

- A Drexel University Undergraduate Admissions Application packet. The University will waive the \$35.00 application fee.
- A detailed resume highlighting your leadership and technical skills and potential.
- A recommendation from an adult leader on your FIRST team.

4.2.2 Deadline

Drexel University must receive your application and scholarship submissions no later than March 2, 2001.

4.2.3 Address/Contact Information

You may obtain admission applications from the undergraduate admissions office at the address below. After completion, please send submissions to:

Drexel University
2001 Drexel University-FIRST Scholarship
Undergraduate Admissions
3142 Chestnut Street
Philadelphia, PA 19104

Telephone: 800-2-DREXEL
E-mail: Enroll@drexel.edu
Web site: www.drexel.edu

4.3 About Drexel University

Drexel University is a national leader in curricular innovation and cooperative education with a strong technological focus. Through Drexel Co-op: "The Ultimate Internship"® students alternate between periods of classroom study and paid professional employment, gaining experience needed to pursue the graduate school or career of their choice. At Drexel, students can earn a B.A, B.S., M.S., M.B.A., and Ph.D. in one of five colleges and three schools including Arts and Sciences; Business Administration; Design Arts; Engineering; Information Science and Technology; Biomedical Engineering; Science & Health Systems; Education; and Environmental Science, Engineering and Policy. Most recently, Drexel has forged an alliance with MCP Hahnemann University, which offers the prestigious MCP Hahnemann University School of Medicine, along with three schools in nursing, health professions and public health. Thanks to Drexel's Philadelphia location, the University offers its students all of the benefits of a major metropolitan area and corporate center.

5. GEORGIA TECH / DELPHI AUTOMOTIVE

The mission of FIRST is to expose and attract new students to the fields of engineering and science – a need of critical, national importance. The FIRST mission is significantly aligned with several programs within the College of Engineering at the Georgia Institute of Technology (Georgia Tech) in Atlanta. In partnership with Delphi Automotive Systems, Inc., the College of Engineering at Georgia Tech is proud to offer at least one non-renewable, merit-based scholarship in the amount of one year's tuition to a high school senior who has participated in a FIRST competition. Scholarship recipients will be notified by Georgia Tech directly during the summer.

5.1 Scholarship Description / Requirements

Georgia Tech's College of Engineering (<http://www.coe.gatech.edu>) will award at least one full-tuition, merit-based scholarship to be applied to the first year's tuition towards an undergraduate degree in an engineering discipline. Preference will be given to students in electrical, industrial, and mechanical engineering. This scholarship is available to any incoming freshman that has participated on a FIRST team (application can be made as a high school senior and awarded during the recipients' freshman year at Georgia Tech). There is a possibility for summer internships with Delphi Automotive Systems as well.

5.2 Submission Information

The recipient must meet the regular requirements for admission to Georgia Tech and the College of Engineering and matriculate at Georgia Tech prior to receiving the award.

5.2.1 Criteria

To apply for the Georgia Tech FIRST Scholarship, you must first:

- Apply to the University for admission and receive an acceptance letter
- Send a letter of interest to the Office of Student Financial Planning and Services at the address below along with a letter of recommendation to be completed by an adult leader on your FIRST team.

NOTE: The Office of Student Financial Planning and Services may require other applications as necessary. For more information or to apply for the scholarship, please contact the Office of Student Financial Planning and Services at Georgia Tech directly (see below).

5.2.2 Deadline

Deadline for scholarship application is June 1, 2001.

5.2.3 Address / Contact Information

To request more information on the Georgia Tech FIRST scholarship, please contact:

Mr. Scott Greene
Office of Student Financial Planning & Services
Georgia Institute of Technology
Atlanta, GA 30332-0460

404-894-4160
scott.greene@success.gatech.edu
www.enrollment.gatech.edu/finaid

5.3 About Georgia Tech

From its beginnings more than a century ago, the Georgia Institute of Technology has established a tradition of excellence in technological research and education. Tech is one of the world's premier technology-oriented universities, boasting a superb faculty of world-class teachers, researchers, and consultants. The Institute is well known for its high academic standards and stands among the top ranks of US research universities with a clear vision for leadership in providing a technological education into the next century.

The College of Engineering is well known for the teaching and research of its faculty in the following departments and academic programs: Aerospace Engineering, Biomedical Engineering, Chemical Engineering, Civil and Environmental Engineering, Electrical and Computer Engineering, Industrial and Systems Engineering, Materials Science and Engineering, Mechanical Engineering, and Textile and Fiber Engineering. For more information, please see <http://www.coe.gatech.edu>.

As the modern research university continues to evolve, Georgia Tech is dedicated to continuing to build its reputation, maintain value, and enhance the rewards available to our students and alumni in order to stay three steps ahead of the status quo. Equipped with the extremely rich resources of an outstanding student body and faculty, strong partnerships with business, industry, and government, and support from alumni and friends, Georgia Tech is poised to fulfill its goals and objectives as well as meet and exceed the challenges of the next century.

5.4 About Delphi Automotive Systems, Inc.

Multinational Delphi Automotive Systems (NYSE: DPH) is a world leader in mobile electronics and transportation components and systems technology. Headquartered in Troy, Michigan, USA, Delphi's three business sectors -- Dynamics & Propulsion; Safety, Thermal & Electrical Architecture; and Electronics & Mobile Communication -- provide comprehensive product solutions to complex customer needs. Delphi has approximately 216,000 employees and operates 184 wholly owned manufacturing sites, 44 joint ventures, 53 customer centers and sales offices, and 31 technical centers in 40 countries. Regional headquarters are located in Paris, Tokyo, and São Paulo.

By leveraging our rich heritage and extensive technical knowledge, we offer a broad range of innovative solutions from components to systems and modules. Delphi's integrated systems and modules are designed to help simplify vehicle manufacturers' processes and meet the demands of today's high-tech vehicles. Our main focus is on customer satisfaction through technology leadership, quality, world class cost levels, and responsiveness.

Our global network, combined with our extensive vehicle systems knowledge, allows us to be there when you need us. For single point solutions, partner with Delphi Automotive Systems to meet your automotive challenges in today's ever-changing global market. For more information, please see <http://www.delphiauto.com/>

6. KETTERING UNIVERSITY (6)

FIRST and Kettering University constitute a great team! The very important hands-on engineering and technical experiences learned while competing in FIRST are skills that you can build on as an undergraduate student at Kettering University. Kettering students work side-by-side with engineers and technical experts developing work skills and earning substantial wages to cover a significant part of their educational expenses. The winners will be announced at the National Championship in April 2001.

6.1 Scholarship Description / Requirements

In partnership with FIRST, Kettering University (formerly GMI) is awarding up to six merit-based scholarships, each having a four-year value of \$20,000. Scholarship applicants must be high school seniors who would like to attend Kettering University and who are actively involved on a competing FIRST team during their senior year of high school. Recipients may enroll in any course of study at the university.

6.2 Submission Information

Students must meet the regular admission criteria for the university and must be admitted to the university by March 1, 2001 to be considered for the scholarship. Contact the Office of Admissions for an application.

6.2.1 Criteria

To apply for the 2001 Kettering University scholarships, please complete and submit the following:

- Two letters of recommendations. At least one must be from an adult leader on the applicant's FIRST team.
- An essay, written by the applicant, which describes the applicant's involvement in the FIRST program and what the experience meant.

6.2.2 Address / Contact Information

The following address and phone number is for the Financial Aid Office as well as Admissions. Once accepted to the University, please send your required scholarship submissions to:

**Office of Admissions
Kettering University
1700 W. Third Avenue
Flint, MI 48504 .**

1-800-955-4464

6.2.3 Deadline

Kettering University must receive the FIRST scholarship application by March 1, 2001

6.3 About Kettering University

(Formerly GMI Engineering & Management Institute)

Founded: In 1919 by General Motors, independent since 1982, becoming Kettering University in 1998.

Students: 2,400 Undergraduate students, 20% women, 12% minorities, 46 states and 15 countries represented.

Faculty: More than 130 full-time faculty, 80% with terminal degrees and the majority with significant business/industrial experience.

Academic Programs: Majors leading to Bachelor of Science degrees offered in Computer, Electrical, Industrial, Manufacturing and Mechanical Engineering,; Management; Applied Math; Applied Physics; Environmental Chemistry, and Computer Science.

Minors offered in Acoustics, Applied Chemistry, Applied and Computational Mathematics, Applied Optics, Applied Statistics, Computer Engineering, Computer Science, Electrical Engineering, Environmental Chemistry, International Studies, Liberal Arts Studies, Management, Material Science, and Physics.

Academic/Co-op Calendar: Students alternate 12-week terms of on-campus classroom study with on-the-job work at a co-op employer. Four 12-week terms comprise one academic year.

Kettering University is America's premiere cooperative education university. Many of the very companies sponsoring FIRST teams, such as Johnson & Johnson, Delphi Automotive, and General Motors also employ our co-op students for the full five-year program. At graduation, Kettering University students have up to 2 ½ years of corporate experience and a significant start on their careers.

What do most employers demand from applicants? Related experience. Our students gain experience while earning their Bachelor of Science degree! As a student participant in FIRST, you will have an advantage over other Kettering University applicants because of your experiences in FIRST and the association with your sponsor. So....apply now to Kettering University and get your career off to a great start.

The following is a quote from Rebecca Linhorst of Bridgewater, MA, 1998 FIRST participant with Johnson & Johnson and now a co-op student at Kettering University employed at Johnson & Johnson, Southington, CT.

“FIRST is exactly the reason I decided to become an engineer and why I should be considered for this scholarship. I went to Johnson & Johnson many nights, working hand in hand with engineers to build a fully functional robot that would be ready to compete in six weeks. By doing this I developed an almost feverish desire to become an engineer!”

7. NORTHEASTERN UNIVERSITY

The mission of FIRST is to expose and attract new students to the fields of engineering and science--a necessity of critical, national importance. This mission is significantly aligned with that of Northeastern University (NU) in Boston. The NU College of Engineering, therefore, is proud to be a participant in FIRST and to offer a full-tuition, fully renewable scholarship to a high school junior who has participated on a FIRST team. The scholarship recipient will be announced at the 2001 National Championship.

7.1 Scholarship Description / Requirements

Northeastern University's College of Engineering will award a full-tuition, merit-based scholarship for an undergraduate degree in any engineering discipline. This scholarship is available to any eligible high school junior who has participated in the FIRST program on any team. The recipient must meet the regular academic requirements for admission to the College of Engineering and scholarship retention as described in the university catalogue.

The scholarship will renew automatically each year of his or her undergraduate degree (for a maximum of five years), contingent upon maintaining good academic standing. Postcards to request a scholarship application package will be available at the national and regional competitions or can be obtained by contacting the College of Engineering at Northeastern University directly (see below).

7.2 Submission Information

To apply for the Northeastern University FIRST Scholarship, request the application package. See below.

7.2.1 Criteria

Complete and submit the following.

- The regular application materials for admission to Northeastern University's College of Engineering. Northeastern will waive the application fee.
- The NU FIRST Scholarship Application
- A recommendation form to be completed by an adult leader on your FIRST team.

7.2.2 Deadline

Northeastern University must receive completed NUFIRST scholarship and admission applications by January 7, 2001

7.2.3 Address/ Contact Information

The contact below can furnish a NUFIRST scholarship and admission application package or receive a scholarship application.

David S. Navick
Assistant Dean for Engineering Enrollment
230 Snell Engineering Center
Northeastern University
360 Huntington Avenue
Boston MA 02115-5000

E-mail: dnavick@coe.neu.edu

7.3 About Northeastern University

Located in the center of Boston's thriving educational and cultural community, students study with nationally recognized faculty in state-of-the-art facilities. They have easy access to many recreational activities in the city and surrounding New England countryside. The College of Engineering is well known for the teaching and research of its faculty in the following departments and academic programs:

- Mechanical, Industrial, and Manufacturing Engineering
- Electrical and Computer Engineering

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- Civil and Environmental Engineering
- Chemical Engineering
- School of Engineering Technology

Outside the classroom, students benefit from a nationally recognized cooperative education program, a strong academic honors program, and numerous professional societies and student groups. As one of the oldest and largest coop-based universities, students consistently report that they relate their course work better to real-world applications, return to their studies with greater commitment, and often receive permanent job offers from former co-op employers. All engineering students also have the option to obtain a minor in business, mathematics, computer information systems, music, etc.

8. POLYTECHNIC UNIVERSITY

Polytechnic University embraces the mission of FIRST, which exposes and attracts new students to the technology-focused fields of engineering and science--a necessity of critical national importance. Polytechnic University is also committed to this goal and applauds FIRST for their actions. Polytechnic University, therefore, is proud to be a participant in FIRST and to offer 5 partial-tuition, fully renewable scholarships in the amount of \$10,000 per year to five (5) high school juniors/seniors who have participated on a FIRST team.

8.1 Scholarship Description / Requirements

Polytechnic University Office of Admissions will award 5 partial-tuition, merit-based scholarships each in the amount of \$10,000 toward an undergraduate degree in any of our undergraduate disciplines. This scholarship is available to any eligible high school junior/senior who has participated in the FIRST program on any team. The recipient must meet the regular academic requirements for undergraduate admission and scholarship to the University as described in the university catalogue.

The scholarship recipient will be announced at the National Championship and will renew automatically each year of her or his undergraduate degree (for a maximum of four years), contingent upon maintaining good academic standing. To request a scholarship

8.2 Submission Information

To obtain an application package, please contact the Polytechnic University's Office of Admissions 1-800-POLYTECH, or inquiry@poly.edu, or by writing to the scholarship submission address listed below.

8.2.1 Criteria

Complete and submit the following materials to the Office of Admissions at Polytechnic University:

- The regular application materials for admission to Polytechnic University
- The Polytechnic FIRST Scholarship Application (Refer to Section 7.4)
- A letter of recommendation to be completed by an adult leader on your FIRST team

8.2.2 Deadline:

Completed Polytechnic/FIRST scholarship and admission applications must be received at the address below by March 1, 2001.

8.2.3 Contact / Address

- Submit your scholarship information to:
John Steven Kerge
Dean of University Admissions
Polytechnic University
6 MetroTech Center
Brooklyn, NY 11201

E-mail: jkerge@poly.edu

9. PURDUE UNIVERSITY / DELPHI AUTOMOTIVE

This scholarship will be awarded to a Senior in high school, who has participated at least one full season with a FIRST robotics team. Preference will be given to students who intend to pursue academic studies in one of the following disciplines: electrical engineering, mechanical engineering, computer engineering or industrial engineering. Selection will be determined by a committee of faculty and staff appointed by the Dean of Engineering or designee. Finalists for the award may be brought to campus for interviews with the committee and a representative of Delphi before the final award decision is made. In addition to the scholarship, the student receiving this award may be offered a summer internship or coop experience with Delphi Automotive Systems in an engineering area of interest. The award decision will be made in March. Although the prospective recipient will be notified in March, the selected student will be recognized at the national FIRST competition in April.

9.1 Scholarship Description / Requirements

The Purdue University Schools of Engineering, with the generous assistance of Delphi Automotive Systems, is pleased to announce a \$30,000 scholarship payable over four years to offset the costs of obtaining a Purdue baccalaureate degree in engineering. Consideration for the scholarship will be initiated by interested students completing the scholarship application form available from the Purdue Department of Freshman Engineering.

Payment of the award is contingent upon the selected student's successful matriculation into the engineering program at Purdue University. The student must apply and be accepted to the University engineering program. Applications are available on-line or from the Purdue Office of Admissions. The University will send a letter upon acceptance. Continuation of the award is contingent on the student remaining in good academic standing with a GPA of at least 3.0/4.0 and continuing undergraduate study in an engineering discipline within the Purdue Schools of Engineering.

9.2 Submission Information

Applications are available on-line or from the Purdue Office of Admissions.

9.2.1 Criteria

Criteria that will weigh heavily in the selection of the Purdue University FIRST Scholar are as follows:

- Proven high school academic ability overall and in math and science in particular.
- Continuity and breadth of math and science preparation, AP courses are desirable.
- Quality performance on standardized college entrance exams (SAT and ACT).
- Active participation in extracurricular activities, exemplary leadership is valued in particular.
- Statement of interest in the field of engineering and value of the FIRST experience.
- FIRST team references from adult leaders, one from team adviser and one from a practicing engineer.
- Academic references, one from math or science teacher and one other.

9.2.2 Deadline

Deadline for applications, including all letters of reference and personal statement, is February 1, 2001.

9.2.3 Address / Contact Information

To get a Purdue University FIRST Scholarship application packet, contact the following individual. Be sure you mention FIRST.

Dr. John Gaunt
Associate Head, Freshman Engineering
Schools of Engineering
Purdue University
1286 Engineering Administration
West Lafayette, IN 47907-1286

Phone: 765-494-3898
Email: gaunt@ecn.purdue.edu

9.3 About Purdue Engineering:

Purdue University is recognized worldwide for its excellence in engineering academic programs as well as research. Ranked among the top ten nationally for both undergraduate and graduate education in the *U.S. News & World Report* Best Engineering program rankings, Purdue is most proud of its recognition by industry as one of the finest, with a reputation rating of #3 in the most recent rankings. Purdue students are highly sought after by Fortune 1000 companies as well as entrepreneurial start-ups. As alumni and professionals, they are also extremely successful--Purdue produces more CEOs than any other Land Grant or publicly assisted university in the country. You will recognize the names of some of the companies headed by and/or started by a Purdue engineer: Amgen, On-command Video, Tellabs, Bechtel, Texas Instruments, and Ariba.

Purdue's program is diverse with more than eleven disciplines from which to choose an undergraduate engineering major including Agricultural and Biological Engineering, Aeronautics and Astronautics, Chemical Engineering, Civil Engineering, Construction Engineering and Management, Electrical and Computer Engineering, Industrial Engineering, Interdisciplinary Engineering, Materials Engineering, Mechanical Engineering, and Nuclear Engineering. All students begin their program of study in Freshman Engineering which enables them to explore the various degree options and relevant careers before selecting the desired discipline.

In addition to Purdue's strong academic programs, the school offers students Cooperative Education work experience in their chosen fields, Study Abroad programs, dozens of opportunities to gain leadership and organizational experience through engineering related student groups, and strong support programs for various constituencies including the Honors program, the Minority Engineering program, and the Women in Engineering program.

9.4 About Purdue University:

Purdue University is a state assisted, Land Grant university that was established in 1869 through a generous gift by John Purdue. The main campus of this statewide system is located in West Lafayette, Indiana, which is the location of the engineering program noted above. Close to 38,000 students are enrolled in programs on the West Lafayette campus. Approximately 20% are engineering students. This campus has an extensive residence halls system, as well as close to 100 coops, fraternities and sororities, a library system that consists of more than 2.2 million volumes and serial publications, and a dedicated physical plant and police force. A diverse population, students come from across the state, the country, and the world. Join us.

Purdue web sites of interest:

Purdue University: www.purdue.edu
Purdue Schools of Engineering: www.ecn.purdue.edu/Engr/
Purdue Admissions Office: www.purdue.edu/Admissions/

9.5 About Delphi Automotive Systems, Inc.

Delphi Automotive Systems Inc. is a global company that offers products in mobile electronics, transportation components, and systems technology. With almost 216,000 employees in 40 countries, its world headquarters in Troy, Michigan directs the efforts of its three primary business sectors: Dynamics and Propulsion; Safety, Thermal, and Electrical Architecture; and Electronics and Mobile Communications. Delphi's integrated systems and modules simplify vehicle manufacturers' processes helping to meet the demands of modern high-tech vehicle design. For more information refer to the Delphi web site at www.delphiauto.com

10. ROCKY MOUNTAIN

In partnership with FIRST, the Pernicka Corporation is pleased to provide a one year scholarship to benefit a deserving senior high school student. The scholarship recipient will be announced at the FIRST National Championship in April.

10.1 Scholarship Description / Requirements

This one-year scholarship will be awarded to a high school senior who has participated on a FIRST team located in New Mexico, Colorado, Wyoming or Montana and has been admitted to an accredited college or university to pursue a career in engineering, science or math.

10.2 Submission Information

10.2.1 Criteria

The Pernicka Corporation will award this non-renewable merit scholarship in the amount of \$5,000 to the candidate who best exemplifies the spirit and goals of FIRST. Please submit the following:

- Letter of recommendation from high school teacher.
- Letter of recommendation from engineer/advisor of FIRST Team.
- Fifty-words or less essay showing the impact FIRST has had on your life.
- Completed scholarship application.

10.2.2 Scholarship Application Deadline

Pernicka Corporation must receive all scholarship application materials by March 1, 2001.

10.2.3 Application Contact / Submission Address

Scholarship applications are available from:

Belinda Waterman
Rocky Mountain – FIRST Scholarship
Pernicka Corporation
112 Racquette Drive
Fort Collins, CO 80524

rga@pernicka.com
Phone: 970-224-0220
Fax: 970-224-3617

11. SAN JOSE STATE UNIVERSITY (2)

In partnership with FIRST, San Jose State University's College of Engineering - Department of Technology is pleased to award up to two, one-year, merit-based full tuition scholarships for an undergraduate degree in a program of the Department of Technology

11.1 Scholarship Description / Requirements

This one-year, merit-based full, tuition scholarship opportunity is available to high school seniors who are actively involved on a competing FIRST team during their senior year of high school and who would like to attend San Jose State University. The recipient must meet the regular academic requirements for admission to the University and the department of Technology. The recipient(s) will be announced on the FIRST web site in May 2001.

11.2 Submission Information

11.2.1 Criteria

To apply for the San Jose State University FIRST Scholarship, do the following:

- Request the SJSU FIRST Scholarship application package
- Complete and submit an application to The California State University system for the academic year 2001-2002 in the Department of Technology SJSU. (This is included in the SJSU FIRST Scholarship application package.)
- Submit two letters of Recommendation, one of which must be from an adult leader on the applicant's FIRST team.
- Submit an essay describing the applicant's FIRST experience and what the experience has meant.

11.2.2 Deadline

Complete and submit your SJSU/FIRST scholarship and admission application so it is received at the above address by April 10, 2001.

11.2.3 Address / Contact

To request a SJSU/FIRST scholarship and admission application package or to submit your scholarship application, please contact:

Professor James Beck
Director Lifelong Learning
College of Engineering
San Jose State University
1 Washington Square
San Jose, CA 95192-0061

jbeck@sjsu.edu

For *general information* about the Department of Technology, please:

- E-mail eng.sjsu.edu/tech,
- Write to the above address
- Call 408-924-3190

11.3 About San Jose State University

San Jose State University's location in the Silicon Valley makes it an exceptionally rewarding learning environment for students to explore their talents and hone their professional skills. Silicon Valley firms and agencies seek SJSU students for internships, summer work programs and for assistance with research and development projects. Silicon Valley firms employ more graduates from SJSU than from any other university in the nation.

THE 2001 FIRST ROBOTICS COMPETITION MANUAL

Located on 154 acres in center city San José, the university offers the excitement of studying at a large, metropolitan campus where many cultures meet. Yet students find personal attention from faculty members in the smaller setting of the university's eight colleges.

San José is a newly revitalized city which hosts major sports, the arts, museums and restaurants serving a wide variety of cuisine. A new attraction is The Tech Museum of Innovation, which features an IMAX® theatre. From its focal point at the center of the South Bay, San José is an hour from the Santa Cruz coastline; San Francisco is one hour north

About the SJSU Department of Technology

The Department of Technology, located in the College of Engineering at San Jose State University, is at the forefront of technological change and innovation in the Silicon Valley. As product markets become global, our hands-on approach to learning prepares our students to enter these jobs as experienced professionals. The Department offers both undergraduate and graduate degrees in a variety of areas, including a BSIT in Manufacturing systems and a BSIT in Electronics and Computer Technology.

12. UNIVERSITY OF DETROIT MERCY

In partnership with FIRST, the University of Detroit Mercy has established a scholarship to benefit a deserving student who currently is a junior, participating on a FIRST team, and who would like to attend the University of Detroit Mercy as an engineering major. The winner will be announced at the National Championship in April 2001.

12.1 Scholarship Description / Requirements

The University of Detroit Mercy (UDM) will award one merit scholarship in the amount of \$5000 per year for four years to a high school student who, during the 2000-2001 academic year, is a junior and active on his/her FIRST team. The recipient will be awarded the position of "FIRST Ambassador" which pays \$1000 per term for assisting with Engineering's FIRST activities. The winner must meet the regular admission requirements for the College of Engineering & Science and must satisfy the requirements for an academic scholarship as well as meet scholarship retention criteria. The recipient may also be eligible for additional UDM academic scholarship money as well as financial aid. The recipient must major in one of UDM's four engineering programs.

The University of Detroit Mercy believes in the FIRST mission and wishes to reward a FIRST participant for his/her commitment to that mission. Because of this, the judging criteria will be based on the applicant's essay as well as academic performance. The University recognizes that the students involved in FIRST are self-motivated with experiences in real-world applications and teamwork -- qualities necessary to succeed in the engineering curriculum at UDM.

12.2 Information Packet Information

- To request a "FIRST Scholarship Information Packet," please contact

Dan Maggio, Engineering
University of Detroit Mercy
Box 19900
Detroit, MI 48219-0900

Fax: (313) 993-1387
Web site: www.udmercy.edu

- For more information about the University of Detroit Mercy, contact:
Admissions Contact: Colleen Ezzeddine, (800) 635-5020, mcgowac1@udmercy.edu
Engineering Contact: Dan Maggio, (313) 993-1435, maggiodd@udmercy.edu

12.3 Submission Information

12.3.1 Criteria

To apply for the University of Detroit Mercy FIRST Scholarship, submit the following three items by March 1, 2001

- A completed University of Detroit Mercy Application for Undergraduate Admission. The University will waive the application fee of \$25.
- One letter of recommendation from a teacher or an engineer on your FIRST team.
- An essay describing your role on your FIRST team and the impact the FIRST experience has had on your life.

12.3.2 Deadline

The University must receive your submission by March 1, 2001.

12.3.4 Submission Address

Submit your completed entry to:
University of Detroit Mercy
Undergraduate Admissions -- FIRST Scholarship

PO Box 19900
Detroit, MI 48219-0900

12.4 About the University of Detroit Mercy

The University of Detroit Mercy (UDM) was formed in 1990 with the merger of the University of Detroit (founded in 1877) and Mercy College (founded in 1941). The University has three campuses in the City of Detroit. UDM currently has 6,200 students, 60% women and 36% minority, with a student:faculty ratio of 16:1. The University is composed of nine schools and colleges: Architecture, Business Administration, Education & Human Services, Engineering & Science, Health Professions, Liberal Arts, Nursing, Dentistry, and Law.

The College of Engineering & Science undergraduate population consists of 36% women and 23% minority students and offers undergraduate engineering programs in Mechanical, Electrical & Computer, Chemical, and Civil & Environmental Engineering. Cooperative education is an integral and required part of the curriculum for all engineering majors. Starting in the summer after their sophomore year, engineering students alternate between fifteen-week terms of school and co-op resulting in approximately one year of job experience by graduation. The University's co-op program, established in 1911 in the College of Engineering, is the oldest in Michigan and the third oldest in the country. The Engineering co-op program is one of many activities in close partnership with the automotive industry.

The College of Engineering & Science also offers students the opportunity for international experience with its Mexican American Partnership Program (MAP). Eligible undergraduate engineering students can spend up to one year in Mexico; two terms studying at Monterey Tech and one term at a co-op assignment.

13. U.S. COAST GUARD ACADEMY MITE (6)

The US Coast Guard Academy is offering six scholarships to FIRST teams for one student to attend a Minority Introduction to Engineering program at the Coast Guard Academy in New London, CT this summer. The scholarship covers all costs for attending the program, including travel.

The six selected teams will be announced at the National Competition, and each selected team can then select one team member to attend the one week MITE program. The scholarship winners will be announced during the Saturday, April 7, 2001 Opening Ceremonies.

13.1 Scholarship Description / Requirements

The one-week Introduction to the Engineering program will be held during two separate weeks in July. Teams should evaluate one another to determine which team demonstrates the high level of teamwork and interest in engineering that is the basis of the USCGA MITE program.

If you are a junior in high school interested in Engineering or Marine science, you may be interested in visiting New London, CT for a fabulous summer program. The Minority Introduction To Engineering (MITE) Program is a one week, all expenses paid trip to the Coast Guard Academy to explore the engineering field and its career possibilities. You will be exposed to Civil Engineering, Mechanical Engineering, Electrical Engineering, Marine Engineering, and Marine & Environmental sciences, as well as see what life is like at the nation's smallest federal military academy. You will be with students just like you, from all over the country. But this week will be more than just classrooms. You will go out on boats, play sports, and have fun.....all while learning more about engineering.

Typical MITE Participants:

- Have just completed the 11th grade
- Are in the top 25% of their class
- Have a B+ or higher average

13.2 Voting

Each FIRST Team will be given a ballot at the National Competition and will vote for a team that deserves to have a team member participate in this one week summer program. Voting will take place on Thursday and Friday, April 5 & 6, 2001.

13.3 Voting Deadline

Voting ends at 4:00p.m. on Friday.

13.4 Information Sources

For more information about the MITE program:

- Visit our web site at: (www.cga.edu/admiss/mite) or
- Call the USCGA Ensign Connie Williamson at 800-883-8724.

14. WPI DESIGN INNOVATION

FIRST would like to congratulate WPI for blazing a trail for other academic institutions to follow. FIRST and WPI remain committed to introducing today's students to the many rewards that science and technology offer. This scholarship will provide a student with the opportunity to obtain an undergraduate degree as a result of his or her participation and effort in the FIRST program. More importantly, it highlights a key role academic institutions can play in continuing the demand for excellence in science and technology created through the student, teacher, academic institution, and corporation partnership. All teams participating in 2001 FIRST Robotics Competition will qualify for the WPI Design Innovation Scholarship. The winning team will be announced at The National Championship in April.

One of main goals of FIRST is to show today's students that it is important to be smart and it is profitable to use your brain. The addition of this scholarship to WPI is one more way in which WPI and FIRST will show today's students that science and technology can be fun and rewarding. With this WPI Design Innovation Scholarship, FIRST continues with an academic strategic alliance to provide FIRST participants with not only an introduction to math, science, technology, and engineering, but an opportunity to pursue studies, gain experience, and choose a career in these exciting fields.

14.1 Scholarship Description / Requirements

This year, WPI and FIRST will award a full, four-year undergraduate scholarship to attend WPI to one of the FIRST student participants. The student selected for the scholarship may be from any grade level and must have demonstrated enthusiasm for engineering and science and possess the ability and innovation necessary to excel as an engineer or scientist.

The award will be presented to the team which receives the most points. Once the winning team is selected, the scholarship award will be made to an individual student designated by the corporate member and school advisor of the winning team. The winning student must also meet WPI's admission requirements and must maintain satisfactory academic progress at WPI to maintain the award. Ultimately, the student that WPI selects for its Design Innovation Scholarship should exemplify the spirit of the FIRST program.

14.2 Voting

The winning team will be selected through a vote conducted by all of the teams. Each team will receive *one* ballot containing five criteria with which they must select first (50 points), second (25 points), and third (10 points) place candidates other than their own team. The criteria are:

- The robot with the most innovative design
- The team that thrives in a partnership or teamwork atmosphere
- The team whose student participants demonstrate enthusiasm for engineering and science
- The team displaying the best sportsmanship
- The best team spirit

14.3 Ballot Deadline

Turn in ballots by 12:00 p.m. on Friday, April 6, 2001.

14.4 About Worcester Polytechnic Institute

WPI's project-based curriculum is well suited to students with demonstrated ability to take responsibility to thrive in the team environment, solve problems, and assume leadership. In short, WPI postulates the same characteristics for success as FIRST.

14.5 WPI Design Innovation Scholarship Ballot

Voting Ballot for Team # _____

Criteria for the WPI Design Innovation Scholarship:

1. Robot with the most innovative design
 2. Team that thrives in a partnership or teamwork atmosphere
 3. Team whose student participants demonstrate enthusiasm for engineering and science
 4. Team displaying the best sportsmanship
 5. Best team spirit.
-

Please submit *one ballot only* for the 2001 competition season

You may submit your vote at any of the following locations:

- **Any Regional Competition in March**

Give ballot to a FIRST Representative located in the Pit Administration Station.

OR

- **National Championship by 12:00p.m. on Friday, April 6, 2001**

Give ballot to a WPI Representative. WPI has an information table in the Team Pit Tent.

Vote for 1st Place Team: _____
(50 Points) (Team #) (Team Name) (Robot Name)

Vote for 2nd Place Team: _____
(25 Points) (Team #) (Team Name) (Robot Name)

Vote for 3rd Place Team: _____
(10 Points) (Team #) (Team Name) (Robot Name)

(STUDENT OR SCHOOL REPRESENTATIVE)

(PHONE #)

(PRINTED NAME)

(SPONSOR REPRESENTATIVE)

(PHONE #)

(PRINTED NAME)