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## Purpose

The Barry M. Goldwater Scholarship and Excellence in Education Program was authorized by the United States Congress in 1986 to honor Senator Barry M. Goldwater, who served his country for 56 years as a soldier and statesman, including 30 years of service in the U.S. Senate. The creation of this program pays tribute to the leadership, courage, and vision of Senator Goldwater and establishes in his name an endowed recognition program to foster and encourage excellence in science and mathematics.

The purpose of the Barry M. Goldwater Scholarship and Excellence in Education Foundation, as stated in the enabling legislation, is to alleviate a critical current and future shortage of highly qualified scientists, mathematicians, and engineers. A more realistic statement of the purpose, in today's terms, is to provide a continuing source of highly qualified individuals to those fields of academic study and research.

The Foundation is supported by the Barry M. Goldwater Scholarship and Excellence in Education Fund, which has been established in the Treasury of the United States. Funding for awards and administrative expenses derives from interest on the Trust Fund, invested in U.S. securities.

## General Guidelines

The Foundation will award undergraduate scholarships to outstanding students, to be known as Barry M. Goldwater Scholars, in the spring of 2008 for use during the 2008-2009 academic year. The awards will be made on the basis of merit to two groups of students -- those who will be college juniors and those who will be college seniors in the 2008-2009 academic year -- who have outstanding potential and intend to pursue careers in mathematics, the natural sciences, or engineering. Four-year institutions are eligible to nominate up to four students who are in the sophomore or junior class during the 2007-2008 academic year. Two-year institutions may nominate up to two students who are sophomores during the 2007-2008 academic year. To be considered, a student must be nominated by his or her college or university using the official nomination materials available to each institution on the Foundation's website.

Each scholarship covers eligible expenses for **undergraduate** tuition, fees, books, and room and board, up to a maximum of \$7,500 annually. Scholarship monies not used during one academic year are not transferable to the succeeding academic year. Junior-level scholarship recipients are eligible for a maximum of two years of scholarship support, and senior-level scholarship recipients are eligible for a maximum of one year of scholarship support.

The Trustees intend to award up to 300 Goldwater Scholarships. The number of scholarships to be awarded per state will depend on the number and qualifications of the nominees from the 50 states, the District of Columbia, Puerto Rico, and, considered as a single entity, Guam, the Virgin Islands, American Samoa, and the Commonwealth of the Northern Mariana Islands.

The word "resident" as used in this context refers to a person who has legal residence in the state from which he or she is a candidate. This status might be indicated by parents' place of residence. If that criterion of residence is not relevant, the candidate's legal residence will be determined by his or her eligibility for in-state tuition rates (where applicable) and place of voter registration.

## Career in Mathematics, the Natural Sciences, or Engineering

The Barry M. Goldwater Scholarship Program was created to encourage outstanding students to pursue careers in mathematics, the natural sciences, or engineering and to foster excellence in those fields.

In awarding scholarships, the Foundation Board of Trustees will consider the nominee's field of study and career objectives and the extent to which that individual has the commitment and potential to make a significant contribution to his or her field.

Nominees for Goldwater Scholarships must include in their nomination materials a statement of interest in a career in mathematics, the natural sciences, or engineering, detailing how their academic program and their overall educational plans will prepare them for their chosen career goal. It is expected that students selected as scholars will pursue advanced degrees.

**Students who plan to study medicine are eligible for a Goldwater Scholarship *only* if they plan a research career rather than a career as a medical doctor in a private practice.**

*Examples of the educational plans of some former Goldwater Scholars are listed below (this list is not inclusive):*

### Undergraduate Major

Aerospace Engineering

Aquatic/Natural Resources Management

Astrophysics

Applied Science

Biochemistry/Microbiology

Biology

Biology

Biology

Biology

Biology/Chemistry

Botany

Chemical Engineering

Chemistry

Chemistry

Chemistry

Chemistry

Computer Science

### Career Objectives

Advanced propulsion systems

Aquatic biology/environmental resources

Astronomy

Medical research

Clinical research in infectious diseases

Agricultural/environmental science

Genetic engineering

Immunology

Molecular biology

Biomedical technology

Research in plant physiology

Research in chemical kinetics

Research in environmental chemistry

Nutritional chemistry

Environmental chemistry

Biotechnology/biochemistry

Artificial intelligence research

|                              |   |
|------------------------------|---|
| Electrical Engineering       | Solid states research                               |
| Engineering Physics          | Research in mathematical physics                    |
| Entomology                   | Research in ecology or entomology                   |
| Environmental Engineering    | Research in hazardous waste treatment               |
| Environmental Science        | Conservation ecology                                |
| Geology                      | Planetary geology                                   |
| Geology/Biology              | Paleontology  |
| Mathematics                  | Applied math in operations research                 |
| Mathematics                  | Math analysis or topology                           |
| Mathematics                  | Research in pure mathematics                        |
| Mathematics                  | Statistical population research                     |
| Mathematics                  | Robotics  |
| Mathematics                  | Research in theoretical mathematics                 |
| Mathematics/Chemistry        | Research chemistry                                  |
| Mathematics/Computer Science | Computer applications in pure mathematical research |
| Mathematics/Physics          | Research in theoretical physics                     |
| Mathematics/Physics          | Experimental physics                                |
| Mathematics/Physics          | High energy physics                                 |
| Mechanical Engineering       | Development of micro and nano technologies          |
| Microbiology                 | Microbial genetics                                  |
| Molecular Genetics           | Antiviral chemotherapy                              |
| Neurobiology                 | Field biology                                       |
| Nuclear Engineering          | Research in nuclear engineering                     |
| Physics                      | Physical oceanography                               |
| Physics                      | Alternate energy sources                            |
| Physics                      | Nuclear physics                                     |
| Physics                      | Theoretical physics                                 |
| Physics                      | Environmental physics                               |
| Physics/Astronomy            | Astrophysics and nonlinear dynamics                 |
| Quantum Mechanics            | Neurological research                               |
| Zoology                      | Zoologist/medical research                          |
| Zoology                      | Organism physiology                                 |

## Conditions of Eligibility

**To be considered for nomination as a Goldwater Scholar, a student must:**

- ◆ Be a full-time matriculated sophomore or junior pursuing a degree at an accredited institution of higher education during the 2007-2008 academic year. "Sophomore" is defined as a student who plans two more years of full-time undergraduate study beginning September 2008. Sophomore nominees can expect to receive a maximum of two years of support. Students in two-year colleges who plan to transfer to a baccalaureate program at another institution may be nominated. "Junior" is defined as a student who plans one more year of full-time undergraduate study beginning September 2008. Junior nominees can expect to receive a maximum of one year of support.
- ◆ Have a college grade-point average of at least "B" (or the equivalent) and be in the upper fourth of his or her class.
- ◆ Be a United States citizen, a permanent resident, or, in the case of nominees from American Samoa or the Commonwealth of the Mariana Islands, a United States national. Nominations from permanent residents must include a letter of the nominee's intent to obtain U.S. citizenship and a photocopy of the Permanent Resident Card (formerly known as the Alien Registration Card).

## Nomination Procedures

### *The Institution of Higher Education*

All candidates for scholarships are nominated by their college or university. The Foundation will not solicit or accept applications directly from candidates but will advise applicants as to the appropriate procedures.

The Foundation invites eligible accredited U.S. institutions (or branches of those institutions) to nominate students for the 2008 competition. Two-year institutions may nominate up to two current sophomores. Four-year institutions may nominate up to four current sophomores or juniors.

If an institution chooses to nominate more than one student, these nominees may reside in the same state or district or they may be from different states or districts.

### *The Nominating Official*

Each participating institution must appoint a [faculty representative](#) to serve as liaison between the institution and the Foundation.

## **The faculty representative:**

- ◆ Publicizes the Goldwater Scholarship Program on campus.
- ◆ Solicits faculty recommendations of outstanding students who demonstrate commitment to pursue a career in mathematics, the natural sciences, or engineering.
- ◆ Establishes the process to select the best qualified candidates to be nominated.
- ◆ Helps nominees prepare for the competition.
- ◆ Ensures that the institution's nominations are complete and submitted online by the stated deadline.

## ***Nomination Materials***

The Foundation's online application will be available by September 2007. Nominations must be submitted electronically from the Foundation's website at [www.act.org/goldwater](http://www.act.org/goldwater).

**Online Application** will consist of the following:

- ◆ **Institution Nomination** - verifies the nominee's eligibility and academic status, and formally transmits the nomination to the review committee. The Institution Nomination must be completed and submitted with the nominee's application by the appointed Goldwater Faculty Representative of the nominee's institution.
- ◆ **Nominee Application** - affirms the nominee's wish to be considered for the scholarship; provides biographical information about the nominee's background, interests, and plans; and provides a statement that describes the nominee's intent to enter an appropriate career in mathematics, the natural sciences, or engineering and specifies how the student's educational plans will provide preparation for that career.
- ◆ **Nominee Essay** - written by the student and relates to the student's chosen career.
- ◆ **Recommendations (3)** - student lists three recommenders and their email address in their application. The system will then generate an email to each recommender giving them instructions on completing their online recommendation. The recommendations should be from a faculty member who can discuss the nominee's potential for a career in mathematics, the natural sciences, or engineering; a faculty member in the nominee's field of study; and another individual/faculty member who can attest to the nominee's potential.

## **Supporting Documents**

- ◆ Transcript from nominee's current institution, including fall semester if available.
- ◆ Transcript(s) from other institutions, that nominee attended with grades for courses taken.
- ◆ Secondary school transcript.
- ◆ Documentation for home school in lieu of secondary school transcript, if applicable.
- ◆ Copy of the nominee's Permanent Resident card and letter of intent to become U.S. citizen, if nominee's citizenship status is permanent resident.

## **Nomination Deadline**

Institution's designated Goldwater Faculty Representative must electronically submit their completed online application(s) for the Goldwater Scholarship by **January 31, 2008, 11:59 p.m. central time**. Faculty representatives may establish an internal deadline prior to January 31 for all nominees to have their application completed. Nominations not electronically submitted by 11:59 p.m. central time on January 31, 2008, will not be considered. Institutions must mail all supporting documents to the Iowa City address by the receipt deadline of **February 1, 2008**.

## Selection Procedures

### Initial Evaluation

An independent review committee appointed by the Foundation will evaluate all valid nominations and recommend the most outstanding nominees from each state for consideration by the Foundation Board of Trustees.

*Nominees are evaluated on:*

- ◆ Demonstrated potential for and commitment to a career in mathematics, the natural sciences, or engineering.
- ◆ Outstanding academic performance.

### Final Selection

From among the candidates recommended by the independent review committee, the Board of Trustees will name up to 300 Barry M. Goldwater Scholars. The number of scholarships to be awarded per state will depend on the number and qualifications of the nominees from the 53 jurisdictions.

## Payment of Scholarship Awards

**To be eligible to receive payments, a Goldwater Scholar must submit in writing:**

- ◆ An acceptance of the scholarship award and a direct deposit form, used to open a scholar account for electronic funds transfer of scholarship payments.
- ◆ At the beginning of each academic year, a single statement of eligible expenses, certified by the authorized financial officer of the enrolling institution, including those for tuition, fees, books, and room and board; plus an additional certification regarding the scholar's academic program; and other certifications as required by law or regulation.

Based on the scholar's yearly costs, two equal payments will be made to the scholar's account by electronic funds transfer. The first payment will be made near the end of July 2008, for payment requests received by that time. The second payment will be made to the scholar's account in mid-December 2008. All payment requests for the year must be received by September 30, 2008.

Payments from the Foundation may supplement, but not duplicate, benefits from another foundation, institution, or organization. In other words, the benefits from all sources combined may not exceed the costs of tuition, fees, books, and room and board for the academic year. The scholar must notify the Foundation promptly of any changes that occur during the year in his or her academic status or to the yearly payment request form information.

## Duration of Awards

It is the intent of the Foundation to support junior-level scholarships for a maximum of two academic years and senior-level scholarships for a maximum of one academic year. Renewal for junior-level scholars will be in accordance with the regulations established by the Foundation Board of Trustees and will be subject to an annual review by an authorized official of the institution that certifies:

- ◆ The scholar is a full-time student and is taking a course of study, training, or other educational activities to prepare for a career in mathematics, the natural sciences, or engineering.
- ◆ The scholar is not engaged in gainful employment that interferes with the scholar's studies.
- ◆ The scholar is in good academic standing.

## Important Dates

|                              |  |
|------------------------------|--|
| September 2007               | Goldwater Scholarship online application and materials available from the Foundation's website.  |
| September 2007               | Goldwater Faculty Representatives emailed with instructions for submitting nominations for the 2008 competition.                                       |
| January 31, 2008<br>11:39 CT | Deadline for online submission of nominee application(s) for the 2008 competition.   |
| February 1, 2008             | Mail <b>receipt</b> deadline for all supporting documents.   |
| February 2008                | Scholarship Review Committee meets to recommend finalists to the Foundation Board of Trustees.   |
| Mid March 2008               | The 2008 Goldwater Scholars and Honorable Mentions approved by the Board of the Barry M. Goldwater Scholarship and Excellence in Education Foundation. |
| Late March 2008              | All nominees and their faculty representatives are notified of their final status in the competition.  |