

## **Packard Fellowships for Science and Engineering 2009 Guidelines**

### **Program Overview**

The success of the Hewlett-Packard Company has been built on technology, derived in large measure from research and development in university laboratories. Because the endowment of the David and Lucile Packard Foundation would not have been possible without the success of HP and the research performed by university-educated engineers and scientists employed by this company, the Foundation has a long-standing interest in strengthening both university-based research and graduate education.

In 1988, the Foundation established the Packard Fellowships for Science and Engineering to allow the nation's most promising young professors to pursue their science and engineering research with few funding restrictions and limited paperwork requirements.

Every year, the Foundation invites the presidents of 50 universities to nominate two young professors each from their institutions. Nominations are carefully reviewed by an Advisory Panel of distinguished scientists and engineers. Sixteen recipients will receive individual grants of \$875,000 distributed over five years. Of the \$175,000 paid each year, \$17,500 is available to the university as compensation for administrative costs.

### **What We Fund**

Candidates must be faculty members who are eligible to serve as principal investigators engaged in research in the natural and physical sciences or engineering and must be within the first three years of their faculty careers. Disciplines that will be considered include physics, chemistry, mathematics, biology, astronomy, computer science, earth science, ocean science, and all branches of engineering. Candidates engaged in research in the social sciences will not be considered.

The intent of the Fellowship Program is to provide support for unusually creative researchers early in their careers; faculty members who are well established and well funded are less likely to receive the award. It is further the intent of the Foundation to emphasize support for innovative individual research that involves the Fellows, their students, and junior colleagues, rather than extensions or components of large-scale, ongoing research programs.

### **What We Do Not Fund**

Recognizing that certain areas of contemporary science and engineering already have access to relatively generous funding (for example, clinical research, research associated with the design and construction of large national facilities such as accelerators and space stations, and applied research of direct relevance to national security), the Packard Fellowships are directed to other, less generously supported fields.

### **Nomination Procedure**

Nominations are requested in January of each year from the presidents of 50 universities selected by the Advisory Panel. Two nominations may be made by the president of each institution. Candidates must be faculty members in the first three years of their faculty

careers, that is, whose initial faculty appointments began no earlier than May 31, 2006, and no later than May 31, 2009.

### **Selection Process**

Nominations are reviewed by the Fellowship Advisory Panel, which makes recommendations to the Foundation's Board of Trustees. The Board then makes the final approval of the selected Fellows. In 2009, 16 nominees will be selected to receive the Packard Fellowship award. Packard Fellowships are awarded without regard to age, race, national origin, citizenship, religion, gender, sexual orientation, or physical disability.

### **Timing of Awards**

Requests for nominations will be sent to the university presidents by **January 20, 2009**; nominations are due to the Foundation by **March 16, 2009**. The Foundation's online application system will be available to nominees and referees on **February 15, 2009** at *fellows.packard.org*. For security reasons, nominees will not be able to access the online application system until they have been identified to the Foundation by the university president. All application materials (described below) must be submitted to the Foundation by **April 20, 2009**. Awards will be announced on or before **October 15, 2009**.

### **Nomination and Application Requirements**

1. A completed nomination form from the president of the university (please note that nominees will not be able to access the online application system until they have been identified to the Packard Foundation).

The nomination form, which will be mailed to the universities with the request for nominations, should state the nominee's name and contact information including email address, departmental affiliation, sponsoring institution's name, and president's name and address. It should not include any written comments.

2. An online submission by each nominee should include the following:

- Complete contact information
- Departmental and institutional affiliation(s)
- Disciplinary field(s)
- Educational background
- Professional positions held
- Honors and awards
- Current external research support
- Publications
- Research statement (see below)
- Names of 4 references (department head and three outside references – see below)

The research statement should describe why the research is important and outline the general goals for the next five years. The statement should also indicate, in general, how funds will be used. This does not need to be a detailed budget and will not be binding on the actual use of funds. **The research statement is limited to 1400 words (maximum two**

**pages of text, prepared in 12-point font with 1-inch margins). If there are relevant figures, images or references, please include these separately on a third page.**

3. The four letters of recommendation should include the following:

- A recommendation from the nominee's department head, which should describe first hand knowledge of the nominee's ability to do creative research. Nominees with joint appointments may submit a single letter signed by both department heads. Emphasis in this letter should be given to information not available in other letters of recommendation.
- Recommendations from **three** people outside the nominee's university who are personally familiar with the nominee's work and creative ability. At least one recommendation must be from a person who has had no supervisory or collaborative contact with the nominee.

Letters of recommendation may be submitted through file upload on the Foundation's online application system or sent directly to Foundation staff by email or standard mail. Due to poor reproduction, letters should not be submitted by facsimile. Letters should not exceed two pages, and should be prepared in 12-point font with 1-inch margins. It should be noted that the referee will not have access to the online system until the nominee enters their name and contact information into the system.

### **Reporting Requirements**

The Packard Fellowship Program seeks to keep reporting requirements to a minimum for active Fellows. However, because this award is dependent upon satisfactory research progress, Fellows must file annual narrative and financial reports.

- The narrative report must be filed online (*fellows.packard.org*) by October 15 of each year and consists of a brief (two page) description of research progress, a publication list, and updated *curriculum vitae* information.
- The financial report must be submitted by December 31 of each year and should outline actual expenditures and the award balance for the reporting period, as well as cumulative figures for the entire grant period. The financial report should be submitted by a university's financial office on behalf of the Fellow.

Fellows within the first five years of their fellowship will be invited to participate in the annual Packard Fellows Meeting, which is held each fall in Monterey, California. Fellows are expected to give an oral presentation on their work in their first and fifth years and are encouraged to make poster presentations in other years.

### **Program Modifications**

This program may be modified from time to time as experience is gained from its operation. Suggestions for modification will be solicited on a continuing basis from the Fellowship Advisory Panel and from the Fellows. The Board of Trustees of the David and Lucile Packard Foundation reserves the right to make any changes it considers desirable at any time.

## How to Reach Us

### Fellowships for Science and Engineering

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The online application and reporting system is found at [fellows.packard.org](http://fellows.packard.org).

### Fellowship Advisory Panel

Frances H. Arnold  
California Institute of Technology

Franklin M. Orr, Jr.  
Stanford University

Jennifer A. Doudna  
University of California, Berkeley

William H. Press  
University of Texas, Austin

Mildred S. Dresselhaus  
Massachusetts Institute of Technology

Stuart A. Rice  
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David L. Goodstein  
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William R. Schowalter  
Princeton University

Phillip A. Griffiths  
Institute for Advanced Study

Allan C. Spradling  
Carnegie Institution of Washington

John E. Hopcroft  
Cornell University

Susan S. Taylor  
University of California, San Diego

### Invited Institutions

Brandeis University  
Brown University  
California Institute of Technology  
Carnegie Mellon University  
Columbia University  
Cornell University  
Duke University  
Georgia Institute of Technology  
Harvard University  
Johns Hopkins University  
Massachusetts Institute of Technology

New York University  
North Carolina State University  
Northwestern University  
Ohio State University  
Pennsylvania State University  
Princeton University  
Purdue University  
Rice University  
Stanford University  
The State University of New Jersey – Rutgers  
SUNY at Stony Brook  
University of Arizona  
University of California, Berkeley  
University of California, Davis  
University of California, Irvine  
University of California, Los Angeles  
University of California, San Diego  
University of California, San Francisco  
University of California, Santa Barbara  
University of California, Santa Cruz  
University of Chicago  
University of Colorado, Boulder  
University of Illinois, Urbana-Champaign  
University of Maryland, College Park  
University of Massachusetts, Amherst  
University of Michigan  
University of Minnesota – Twin Cities  
University of North Carolina, Chapel Hill  
University of Pennsylvania  
University of Rochester  
University of Southern California  
University of Texas at Austin  
University of Texas Southwestern Medical Center  
University of Utah  
University of Virginia  
University of Washington  
University of Wisconsin – Madison  
Washington University in St. Louis  
Yale University