



UNIVERSITY OF
ARKANSAS

BREAKING THE CODE: STEM SCHOLARSHIPS

September 18, 2016 | Office of Nationally Competitive Awards

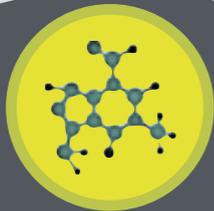
Scholarships for STEM and Social Science Majors to Consider



**Ford Foundation
Dissertation Fellowship**



**University Sponsored
Fellowships**



**Science, Math, &
Engineering
National Science
Foundation, NIH, Hertz,
NDSEG,
ORAU, DOE**



**All Majors—Graduate
Study in the U.K.
*Rhodes, Marshall,
Gates Cambridge, Mitchell
(Ireland/Northern Ireland)***



Student achievement...

Mathias Bellaiche, 2013 Goldwater Scholar, was named an NIH MD/PhD Oxford Cambridge Scholar in 2014. Mathias is studying for dual degrees at the National Institutes of Health and Cambridge University.

National Institutes of Health Oxford-Cambridge Scholarship

- Tuition and stipend support for the duration of the program
- Biomedical research
- Two research mentors - one at NIH campus in Bethesda, MD; one at either Oxford or Cambridge
- PhD or MD/PhD options
- Deadline - December 1, 2016



DOE COMPUTATIONAL SCIENCE GRADUATE FELLOWSHIPS

\$36,000 for up to 4 years

Application will be available in late October

SCHOLARSHIP BASICS—NDSEG



The NDSEG Fellowship Application is now open, and will close on December 9, 2016, at 5:00 P.M. EST.

Fellows receive a total of \$102,000 in stipend funds over the course of their 36-month program tenure.

You must submit GRE scores.

SCHOLARSHIP BASICS—NDSEG



NDSEG

FIELDS OF STUDY

Aeronautical and Astronautical Engineering

Biosciences

Chemical Engineering

Chemistry

Civil Engineering

Cognitive, Neural, and Behavioral Sciences

Computer and Computational Sciences

Electrical Engineering

Geosciences

Materials Science and Engineering

Mathematics

Mechanical Engineering

Naval Architecture and Ocean Engineering

Oceanography

Physics

SCHOLARSHIP BASICS—NDSEG



NDSEG

Personal Data

Academic Background

Proposed Area of Study

Publications, Presentations and Patents

Awards and Honors

Scientific or Research Experiences

Leadership Experiences

Teamwork Experiences

Memberships and Certifications

Community and Volunteer Work

Goals

GRE Scores and References

Transcripts

OAK RIDGE ASSOCIATED UNIVERSITIES



Founded in 1946 and partnered with Oak Ridge National Lab, ORAU is a consortium of 121 PhD granting institutions.

ORAU provides a single resource hub for developing and administering over 9,000 various experience-based research opportunities.

Designed to “train the next generation of science and technology leaders,” ORAU serves a range of researchers, from undergraduates to current faculty.



ORAU offers internships, scholarships and fellowships,
each of various tenures

Full catalogue of programming: <http://see.ornl.gov>



The Oak Ridge Institute for Science and Education (ORISE) is a U.S. Department of Energy institute offering research and internship opportunities to the STEM students.

ORISE offers opportunities for undergraduate, graduate, recent graduate, and postdoctoral students.

Learn more at orise.orau.gov

HERTZ FOUNDATION GRADUATE FELLOWSHIP



The Hertz Foundation Graduate Fellowship funds PhD study for students entering applied physical, biological, and engineering fields.

15-20 fellowships are awarded each year.

Seniors and first or second year graduate students are eligible to apply.

Must pursue graduate studies at a participating Hertz institution.

2016 applications are due October 28th.

HERTZ FOUNDATION GRADUATE FELLOWSHIP



Hertz fellowships are awarded in one of two schemes:

Option 1: 5-year continuous Hertz funding
\$32,000/ 9-month personal stipend
Full tuition equivalent
Renewable up to 5 years

Option 2: 5 year coordinated Hertz funding
\$38,000/ 9-month personal stipend
Full tuition equivalent
Hertz funding period—2 years

HERTZ FOUNDATION GRADUATE FELLOWSHIP



- Exceptional intelligence and creativity
- Excellent technical education
- Orientation and commitment to the applications of the physical sciences
- Extraordinary accomplishment in technical or related professional studies
- Features of temperament and character conducive to high attainment
- Appropriate moral and ethical values

Find more information at hertzfoundation.org

FORD FOUNDATION FELLOWSHIPS



The Ford Foundation funds PhD study for students in a variety of fields, including both STEM and the humanities

Offers support for students who are members of communities historically underrepresented among higher education professionals

The foundation offers a variety of types of support:

- Predoctoral fellowships

- Dissertation fellowships

- Postdoctoral fellowships

FORD FOUNDATION FELLOWSHIPS



The predoctoral fellowship funds approximately 60 scholars per year: \$24,000 annual stipend/Renewable up to 3 years
Deadline: November 17, 2016

The dissertation fellowship funds approximately 30 scholars per year: \$25,000 stipend/ 1 year
Deadline: November 10, 2016

The postdoctoral fellowship funds approximately 24 scholars per year: \$45,000/ 1 year
Deadline: November 10, 2016

Learn more at sites.nationalacademies.org/pga/fordfellowships/index.htm

Graduate Study in the United Kingdom & Ireland



Student achievement...

Ryan DuChanois, a 2016 civil engineering graduate, was named a 2016 Gates Cambridge Scholar. He is studying for an MPhil in engineering for sustainable development at the University of Cambridge.

Rhodes
Scholarship

Oxford
University

Marshall
Scholarship

U.K. Institution

Gates Cambridge
Scholarship

Cambridge
University

Mitchell
Scholarship

Irish
Institutions



There are many funding opportunities that do not require US citizenship or permanent residence

A helpful database is The Illinois Database of Grants and Fellowships for Graduate Students

<https://www.grad.illinois.edu/fellowship/>

INTERNATIONAL STUDENTS

NON-US
CITIZENS

FELLOWSHIP FINDER

The Illinois Database of Grants and Fellowships for Graduate Students



My Folder (0)

FIELD

- All
- Social Sciences / Humanities
- Sciences / Engineering / Math
- Professional Programs
- Fine Arts

CITIZENSHIP

- All
- US Citizens, Nationals, or Permanent Residents
- International Students

STAGE OF STUDY FOR WHICH YOU SEEK FUNDING

- All
- Master's
- Early Years of Doctoral Program
- Dissertation Research ?
- Dissertation Write-Up ?
- Postdoctoral / Post-graduate

AWARD TYPE

- All
- Fellowship / Grant ?
- Research/Study Abroad
- Short-Term Travel
- Foreign Language Training
- Research Internships

ELIGIBILITY

- All
- Unrestricted ?
- University of Illinois Students
- Underrepresented Students ?
- Women

LIMIT RESULTS TO

- Annual stipend of at least \$10,000
- Listings added or updated in the last 30 days

HELPFUL LINKS

[External Fellowships Office](#)
[Grant Writing Workshops](#)
[Proposal Advising](#)
[Online Resources](#)
[Staff & Contact](#)

SEARCH

INTERNATIONAL STUDENTS

NON-US
CITIZENS

SEARCH RESULTS | FELLOWSHIP FINDER



Back to Search



My Folder (0)

85 results

FIELD

- All
- Social Sciences / Humanities
- Sciences / Engineering / Math
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Search by award name or keyword

SEARCH

AWARDS	AMOUNT	DEADLINE	ADD TO FOLDER
<p>ACM SIGHPC / Intel - Graduate Fellowship for Women and Minorities in Computational & Data Science</p> <p>Up to five-year fellowship for any graduate program where computational modeling and simulation serve as the primary methods for conducting research.</p>	Up to US \$75,000	Anticipated 4/2017	
<p>Acoustical Society of America - Graduate Scholarship in Phonetics and Speech Science</p> <p>Fellowship for graduate study and research in phonetics and speech production.</p>	\$23,000	Anticipated 3/2017	
<p>Alberta Learning Information Service (ALIS) - Sir James Lougheed Graduate Scholarships</p> <p>Scholarships for residents of Alberta, Canada, to pursue graduate study outside of Alberta.</p>	\$15,000-20,000	Anticipated 2/2017	
<p>Alexander Graham Bell Association for the Deaf and Hard of Hearing - Scholarship Program</p> <p>Scholarship for students with moderate to severe pre-lingual bilateral hearing loss.</p>	\$2,500-10,000	Anticipated 3/2017	
<p>American Association of University Women (AAUW) - International Fellowships</p> <p>Fellowships for female international students at master's, doctoral, or postdoctoral level.</p>	\$18,000-30,000	12/1/2016	
<p>American Concrete Institute (ACI) - Graduate Scholarships and Fellowships</p> <p>Scholarships & fellowships for graduate students whose studies concrete.</p>	\$3,000-30,000	10/16/2016	
<p>American Psychological Association (APA) - Graduate and Postdoctoral Scholarships, Fellowships, & Grants</p> <p>Scholarships, fellowships, and grants for graduate and postdoctoral research in psychology.</p>	\$1,500-50,000	Varies	
<p>American Psychological Association (APA) - Wayne F. Placek Research Grant</p> <p>Grant for research in the behavioral or social sciences on LGBT issues.</p>	\$15,000	Anticipated 3/2017	
<p>American Society for Nondestructive Testing (ASNT) - Graduate Research Fellowship</p> <p>Fellowship for graduate research and study in the field of nondestructive materials, component or systems testing.</p>	\$20,000	Anticipated 10/2016	
<p>American Society of Heating, Refrigeration & Air-Conditioning Engineers (ASHRAE) - Grants-in-Aid</p> <p>Grant for graduate research on building systems, energy efficiency, indoor air quality, refrigeration, and sustainability.</p>	\$10,000	Anticipated 12/2016	
<p>American Society of Mammalogists (ASM) - Grants & Fellowships</p> <p>Grants and fellowships support graduate research in any area of mammalogy.</p>	\$1,500-10,000	Anticipated 3/2017 Anticipated 5/2017	



In looking back over three and a half years of college, I only regret that I have not been able to enroll in all the classes in which I was interested. When I entered college, I was overwhelmed by all the options open to me, but I thought four years would give me enough time to fit it all in. However, yesterday as I perused the catalog for spring semester classes, I realized that I will graduate in May without taking many of the other classes that I thought sounded interesting or fun. Although I feel frustrated at not being able to take everything, I do believe I have formed a solid foundation for myself in my two chosen majors, Math and Physics.

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OPENING PARAGRAPHS

My interest in efficient water infrastructure has guided the story of my college career. As a first-semester freshman, I listened to a faculty member in my department discuss the importance and implication of civil engineering on a society. He addressed how we ensure safety, provide for the needs of the people, and are at heart science lovers caring for people in the most tangible way. This discussion helped me realize that I could use civil engineering as a catalyst for service. The faculty member's presentation ended with a picture of a woman leaning down and drinking from a well. The directness and simplicity of the image instilled in me a new thought....



I began to suspect that the solutions to the world's needs were far more open ended than I had first thought. This understanding perpetuated my interest in efficient technology and innovation to see the world's needs, particularly The National Academy of Engineering's "Grand Challenge" of providing universal access to clean water. Since that influential presentation, I have evolved this interest through experiences that both directly relate to universal water access as well as outreach to the general needs of society in a sustainable manner.

OPENING PARAGRAPHS



PERSONAL
STATEMENTS

Being an immigrant from Germany, I battled with the initial hardship of mastering English, learning the American school system, and finding scholarships, grants, and research programs that do not have a citizenship requirement. Nonetheless, I maintained my vision that I will make a difference in people's lives. As a son of a physicist and a nephew of a thirty-year Green peace activist, I developed a passion for learning the mechanics of the world from an early age. I combined my desire for making an impact and my enthusiasm for science by attending the University of Arkansas to pursue a career in improving the material properties of photovoltaic devices. Solar panels have always fascinated me because they are self-contained and literally last a lifetime, making them excellent candidates to be used anywhere around the world.

OPENING PARAGRAPHS



PERSONAL
STATEMENTS

The wind whipped around me, taking any body heat not already stolen by the sub-zero temperature. On a December night during my sophomore year, I was on the roof of Kimpel Hall, our tallest campus building, setting up the University's ten-inch Meade telescope to make photometric observations of eclipsing binary stars. I thought back to the instructions Dr. Lacy had given me that September, when I began the independent observation class. The rooftop seemed so pleasant then However, I now despised every screw and bolt I had to tighten into place. It must have taken twice the usual ninety minutes to set up the telescope—fortunately the long winter nights gave me more viewing time. I would take out the freezing wrench, pull off my gloves, tighten the bolt, blow warm air on my hands, then stick them back into the gloves. Every 10 minutes or so I would run down the flight of stairs back into the heated building. At that point I lost any delusion of grandeur about the romance of astronomy. This, I found out, was what separated stargazers from astronomers.

ADVICE & APPLICATION REVIEW



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