OVERVIEW OF TODAY’S PRESENTATION

 Our roles
 Typical timeline, eligibility and application material
 Funding opportunities

WHAT ARE COMPETITIVE FELLOWSHIPS

 Funding based on you
   Future researcher, educator, leader, innovator
 Alignment of goals
 Recognition of your commitment
   To aspire future young and underrepresented researchers
   To advance the work in your field and across related fields that significantly impacts society

MICHIGAN TECH’S FUNDING ENVIRONMENT

 3.5 or above
 STEM related research field
 More for domestic, some international
 Senior and first year graduate school
 Finishing doctoral studies

ELIGIBILITY VARIES
Applications available now

**Deadlines October - December**

- Awards March - June
- Funding in place Fall 2013

**ATTEND SEMINARS WORKSHOPS**

- September 20th: "Pulling Together Competitive NSF GRFP Application Material"
- September 27th: "Harness Your Brilliance: A Revision Process"
- October 4th: "An Insider’s Perspective on the Review Process"
- October 11th: "Broader Impacts...huh?"

**LEAVE TIME TO GATHER PUZZLE PIECES**

- Application
- Essays
- Letters of reference
- Some GRE scores
- Transcripts

**NSF FELLOW FACES YOU MAY KNOW**

- Mark Hopkins, ME-EM
- Brennan Tymrak, ME-EM and PCMI
- Jennifer Fuller, Civil and Environmental Engineering
- Liz Cloos, ECE
- Erich Petushek, Biomedical

**NATIONAL SCIENCE FOUNDATION**

- AGEP- Professional Development
- IGERT-Grads ($30K) www.igert.org
- GK-12- Grads ($30K) www.gk12.org
- Faculty Early Career- Faculty
- Research Grants – Faculty
- NSF Grad Research Fellowship Program- ($30K) www.nsfgrfp.org

FYI: IGERT, GRFP, and GK-12 all have a $30,000 stipend and $10,500 cost of education allowance

**Three essays**
- Personal Statement
- Previous Research Experience Essay
- Proposed Plan of Research

**Benefits**
- 3 years of support
- $30,000
- $12,000 cost of tuition
- International research opportunities
- TeraGrid Supercomputer Access
**DEPARTMENT OF DEFENSE (DOD)**

**THE SCIENCE, MATHEMATICS AND RESEARCH FOR TRANSFORMATION (SMART)**

- Full tuition and education related fees (does not include items such as meal plans, housing, or parking)
- Stipend paid at a rate of $26,000 - $38,000 depending on degree pursuing (may be prorated depending on award length)
- Paid summer internships
- Health insurance allowance up to $1,200 per calendar year
- Book allowance of $1,000 per academic year
- Mentoring
- Employment placement after graduation (year of service)

**DOD SMART APPLICATION**

- Academic background
- Proposed Area of Study
- Placement Preferences
- Summary of Goals
- Interests and Research Explanation
- Community and Volunteer Work

**NATIONAL DEFENSE SCIENCE & ENGINEERING GRADUATE FELLOWSHIP**

**Benefits**
- Up to 3 years
- Full tuition and mandatory fees
- $30,500 year one, $31,000 year two, $31,500 year two
- $1,000 in medical insurance

**Eligibility**
- Open to domestic students
- Be enrolled in their final year of undergraduate studies, or have completed less than two full-time years of graduate study in the discipline in which they are applying

**PREPAREDNESS FOR GRADUATE RESEARCH**

- Does the applicant have research experience, and, if so, has the applicant published and/or presented his or her work in public meetings? If not, does the applicant have other relevant experiences that demonstrate the applicant is well prepared for graduate research?
- Is the applicant’s proposed plan of research complete and well constructed, does it demonstrate knowledge of the relevant scientific literature, and does it demonstrate a clear understanding of scientific and technical challenges involved?
- Does the Proposed Plan of Research demonstrate original thinking and have the potential to make meaningful contributions to the research field?
- Does the applicant make the case for how the Proposed Plan of Research is aligned with the goals of one or more of the Office of Science research programs?
ELIGIBILITY

- 18 years or older
- You are an undergraduate senior, planning to apply to qualified graduate programs (see below) this year and be enrolled by Fall 2012.
- You are a first year or second year Master’s or Ph.D. student in a qualified graduate program.

DEPARTMENT OF ENERGY

DOE FELLOW FACES YOU MAY KNOW

Carley Kratz, doctoral student in forest science. Studying how added warmth affects the soil’s tiniest creatures.

Colin Gurganus, a doctoral student in Atmospheric Sciences. Exploring cloud microphysics.

NASA SCHOLARSHIP PROGRAM

Requirements:

U.S. Citizenship, F/T Graduate Student, GPA 3.0 or higher, not receiving other federal funding
$30,000 per year, renewable up to 3 years
$30K includes stipend ($21K), travel allowance ($4K), university allowance ($4K), health insurance ($1K)

NASA GSRP

OTHER AGENCIES TO CONSIDER

National Endowment for the Humanities
Think collaboratively - awarded mostly to faculty or grass root organizations

National Institutes of Health
Very comprehensive and competitive

Environmental Protection Agency
Research based, undergraduate and graduate fellowships

DOT: Dwight D Eisenhower Transportation Fellowship program
Think outside the box, “transportation related”

NOAA (National Oceanographic and Atmospheric Administration)

THE NATIONAL GEM CONSORTIUM

The GEM Fellowship is a private sector sponsored program, where students receive:
- Full tuition and fees
- Paid 3-month summer internship (s) at one of 55+ employer members

MS Engineering Fellowship Program
- $14,000 stipend per semester, maximum 4 semesters/6 quarters
- Full tuition and fees at GEM member university
- 2 paid summer internships with GEM Employer sponsor (required)

PhD Science/Engineering Fellowship Program
- Minimum $14,000 academic year stipend for year one from GEM
- University support year 2 & 5
- Full tuition and fees at GEM member university
- 1 paid summer internship with GEM Employer sponsor (required)
Eligibility requirements
- Minimum 2.8 GPA for MS Engineering Fellowship
- Minimum 3.0 GPA for PhD Engineering and Science Fellowships
- Submit three (one from faculty) letters of recommendation
- Detailed resume
- Include statement of purpose
- Undergraduate and graduate transcripts
- Be member of underrepresented minority group (African American, Hispanic American, and American Indian)
- Be a U.S. citizen or permanent resident

Juniors and Seniors apply @ www.gemfellowship.org
by October 1st for early consideration all supplemental material must be in by November 15th.

Pre-doctoral Stipend & Benefits (3 Years of Support)
- Approximately 40 fellowship awards
- $20,000 annual stipend paid to fellow
- $2,000 annual cost-of-education allowance

Dissertation Stipend & Benefits (One Year of Support)
- Approximately 20 fellowship awards
- $31,000 per year

Postdoctoral Stipend & Benefits (One Year of Support)
- Approximately 18 fellowships
- $40,000
- $1,500 employing institution allowance (to be matched by employing institution)
- Expenses paid to attend one Conference of Ford Fellows Mentoring by Ford Liaisons

Not given for research, internships, or for practical training unless it is combined with coursework.
- Nominated by PEO chapter
- $10,000 Benefit
- Need based
- Renewable


Jacob Bjorn awarded Gilman to study in Costa Rica and Joshua Warfield in Chile.
Academic Arts English Teaching Assistanship Fulbright-mtvU Awards Fulbright Public Policy Fellowships Travel Grants Supplemental grant Critical Language Enhancement Award Special Opportunities by Field Business, journalism, sciences and public health

FULBRIGHT US STUDENT

The purpose of the King-Chávez-Parks Future Faculty Fellowship Program is to increase the pool of traditionally underrepresented candidates pursuing faculty teaching careers in postsecondary education.

Application
- 1-2 page purpose statement
- Curriculum vitae
- Transcripts

KING-CHÁVEZ-PARKS FUTURE FACULTY FELLOWSHIP

Vision
The Michigan Space Grant Consortium fosters awareness of, education in, and research on space-related science and technology in Michigan.

MICHIGAN SPACE GRANT CONSORTIUM

the scientific and educational relevance of the proposed activity,
the likelihood for success, and the mentor's expressed commitment to the project.
MSGC objectives, student qualifications, and programmatic balance will also be considered in the selection of award recipients.
students are required to identify a mentor in the faculty research, education, or public service communities, with whom they intend to work.

MICHIGAN SPACE GRANT CONSORTIUM

Project Description
- Provide a motivation for your project. Show how it fits into a broader context as well as how it is different from what others have done.
- Describe what you will do. Be specific enough that someone, who is not necessarily an expert in your particular subfield, can make an informed judgment as to the feasibility and potential impact of what you are proposing. (SURF proposals are reviewed like National Science Foundation proposals in that they are sent out to professors across campus who rate them on a scale from Excellent to Poor.)
- Describe how you will do it.

MICHIGAN TECH’S SUMMER UNDERGRADUATE RESEARCH FELLOWSHIP (SURF)

Undergraduates receive $2,500
Graduates receive $5,000

RELATED LINKS

NSF GRFP: www.nsfgrfp.org
Fulbright: www.iie.org/fulbright
Boren: www.borenawards.org
Gilman: www.iie.org/en/Programs/Gilman-Scholarship-Program
NSF EPS: www.nsf.gov/funding/pgm_summ.jsp?pims_id=5284
DOD SMART: http://smart.asee.org/
DOE: www.te.gov.gov
DOE
NDSEG: www.ndseg.asee.org
DOE
EPA: www.epa.gov/ncer/fellow
Funding: http://www.mtu.edu/gradschool/admissions/financial/
Tech Magazines and Reports: http://www.mtu.edu/gradschool/
Tech Today: http://www.admin.mtu.edu/today/
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