Prestigious Fellowship Introductory Workshop August 27, 2018

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Prestigious Fellowship Introductory Workshop April 10, 2017

https://gradschool.wsu.edu/presti gious-fellowship-workshop/ Video, Powerpoint

Objectives

Get you thinking about applying for a fellowship soon.

Describe what a fellowship can do for you.

Present information about applying for a fellowship.

Share ideas about how to improve your chances between now and when you apply.

I'm open to questions whenever you ask them.

- 1. What are Prestigious Fellowships?
 Competitive, National/International, Individual
- 2. Why would you want one? Money, Prestige, Flexibility
- 3. How do you get one?

These are awarded to applicants. Apply.

An application is necessary but not sufficient.

- 4. How are Fellowship applications evaluated? Who is your audience? Typically faculty members in your discipline.

 Don't overrate them.
- 5. How to put together a competitive application.

 What do programs look for? Can you give them more? Or better?

Benefits of Graduate Student Prestigious Fellowships

- Money
 - These typically pay a stipend (\$\$\$) and tuition
 - Often include other forms of support (travel, operations)
 - Do I have to give up my current assistantship?
 - Usually but...
 - What about teaching?
- Prestige—definitely a "cv-able" event
- Can focus on your own research

Timing of Submission for the Fellowships

- Depends on the Fellowship. Some are designed to start when you start,
 some when you have reached a milestone, like passing Prelims.
- Deadlines vary with Program (NSF–Fall; USDA–Spring)
- Submit more than once if you can, in order to obtain feedback.

For NSF

- Can apply as an undergraduate BUT
- Only once as grad student (in Year 1 OR Year 2)*
 - *If you started this summer, you may need to apply now!!
- NSF has additional categories (interrupted, after B.S.)
- At least 2-3 years of study left
- Due week of October 22 (day depends on subject)

NSF Graduate Research Fellowship Program

- https://www.nsfgrfp.org/
- 2019 GRFP application period is now open.
- Prospective applicants must read the <u>Program Solicitation</u>, and apply for the 2019 competition on the <u>FastLane</u> portal.
- Eligibility Guidelines
- See the current <u>Program Solicitation</u> for eligibility guidelines. Those already enrolled in graduate school may apply one time only. See section <u>IV. Eligibility Information</u>.

Which fellowships to apply for?

- Your fit. Are the programs trying to find you?
 - · Get feedback.

- Follow the money. NSF gave 2000 awards this year.
 - 2000 awards/12,000 applications (17%)
- Applications for different fellowships are similar, but not identical. So you may want to apply for more than one.

What are graduate student prestigious fellowships?

- National Science Foundation Graduate Research Fellowship Program https://www.nsfgrfp.org/
- NSF is interested in individuals who are currently, or who will be enrolled in STEM disciplines, including social sciences, STEM education.
- 3 years of support during a 5 year fellowship period
- \$34,000 to the fellow (\$2,833/month), \$12,000 to the institution for cost of attendance
- Access to international travel funding and internship opportunities.
- 2018: 2000 awards/12,000 applications

What are graduate student prestigious fellowships?

- National Science Foundation Graduate Research Fellowship Program https://www.nsfgrfp.org/
- Eligible: Applicants must be United States citizens, nationals, or permanent residents of the United States by the application deadline.
- Not eligible: Extensive definition, read carefully but
 - Practice-oriented professional degree programs...
 - Clinical, counseling, business administration or management, social work, education (except in science and engineering education), or history (except in history of science) areas of graduate study are not supported.
 - Research with disease-related goals... However, research in bioengineering... that
 applies engineering principles to problems in biology and medicine while advancing
 engineering knowledge is eligible for support. Bioengineering research to aid persons
 with disabilities also is eligible.

NSF Graduate Research Fellowship Program

 "Since 1952, NSF has funded over 50,000 Graduate Research Fellowships out of more than 500,000 applicants. Currently, 42 Fellows have gone on to become Nobel laureates, and more than 450 have become members of the National Academy of Sciences. In addition, the Graduate Research Fellowship Program has a high rate of doctorate degree completion, with more than 70 percent of students completing their doctorates within 11 years."

What's in a NSF Graduate Research Fellowship Application?

- Personal Information (cv)
 - Education, Work and Other Experience; Electronic Transcripts;
 - Proposed Field(s) of Study;
 - Proposed Graduate Study and Graduate School Information
- Personal, Relevant Background and Future Goals Statement
- Graduate Research Plan Statement

At least three reference letters (professional). By November 2

What are graduate student prestigious fellowships?

- NIH Individual National Research Service Awards (Standard)
- Ruth L. Kirschstein National Research Service Award (NRSA) Individual Predoctoral Fellowship
- Ruth L. Kirschstein National Research Service Award Individual Predoctoral Fellowship to Promote Diversity in Health-Related Research
- The overall goal of the NIH Ruth L. Kirschstein National Research Service Award (NRSA) program is to help ensure that a diverse pool of highly trained scientists is available in appropriate scientific disciplines to address the Nation's biomedical, behavioral, and clinical research needs. NRSA fellowships support the training of pre- and postdoctoral scientists, dual-degree investigators, and senior researchers. More information about NRSA programs may be found at the <u>Ruth L. Kirschstein</u> <u>National Research Service Award (NRSA)</u> website.
- Due December 8, April 8, August 8, 2018-2021

What are graduate student prestigious fellowships?

- USDA—National Institute of Food and Agriculture Predoctoral
- https://nifa.usda.gov/funding-opportunity/agriculture-and-food-research-initiativefood-agriculture-natural-resources-and
- The NIFA Fellowships Program provides fellowships to outstanding predoctoral students to work on Challenge Areas in the food, agricultural, natural resources, and human sciences at land grant universities.
- Must have advanced to Ph.D. candidacy. (Application deadline ??? Check!!)
- 2018 Applications \$120,000/2 years. (Stipend \$35,000/yr; regular grant)
- Funding rate: 16%

•

BUT 2016-WSU got 6 of 8 applications funded. 2015 (2 of 2); 2014 (1 of 1)

Foundation for Food and Agriculture Research Fellows (US Citizen?)

Applications for 2019-2021 will be released in December, 2018 https://ffarfellows.org/

Ford Foundation Predoctoral Fellowship

- http://sites.nationalacademies.org/PGA/FordFellowships/PGA 047958
- Three years of (\$24,000) of support per year, expenses paid to attend a conference of Ford Fellows, and access to Ford Fellow Regional Liaisons. The Ford fellowship is a fantastic networking opportunity.
- It is for Ph.D students from diverse backgrounds who are obtaining a Ph.D in a qualified field and who plan on becoming professors. The main goal is to increase diversity in higher education.
- 1 in 30 applications won last year

Gilliam Predoctoral Fellowship

- Administered by HHMI in the biomedical area
 - (There is other HHMI research support for Vet and Med students)
- Supports members of underrepresented groups who have passed prelims
- Must be nominated (Sept 1; see me)
- https://www.hhmi.org/developing-scientists/gilliam-fellowships-advanced-study
- 1 in 5 of the accepted applications won awards last year

What are graduate student prestigious fellowships?

- DOE Computational Science Fellowship https://www.krellinst.org/csgf/about-doe-csgf
 - Contact Lindsey with questions via phone to (515) 956-3696
- Program is interested in interdisciplinary students who will use mathematics and computers to solve science and engineering problems.
- Seniors, B.S. or M.S. holders pursuing Ph.D. Apply no later than first year of Ph.D. program.
- \$36,000/year for 4 years, \$1,000-\$5,000 academic allowance, 12 week practicum in one of 21 DOE national laboratories or sites, including access to supercomputers, rigorous program of study



Fulbright U.S. Student Program

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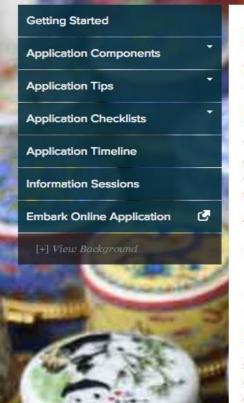
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I am a.... 🔻

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Getting Started

2019-2020 Competition Deadline: October 9, 2018 5:00 p.m. Eastern Time

Step 1: Determine Applicant Type

You will apply either through a U.S. institution or At-Large. If you are currently enrolled in an undergraduate or graduate program at a U.S. college or university, you are strongly encouraged to apply through that institution, even if you are not currently a resident there. If you are not currently enrolled, you may apply through your alma mater, provided that the institution is willing and able to accommodate alumni applications.

All other candidates will apply as At-Large applicants.

- Application procedure for candidates applying through U.S. institutions
- Application procedure for At-Large candidates

Step 2: Select Award Type

Study/Research Awards: Offered for projects in all Academic and Creative & Performing Arts fields. Applicants can propose their own independent study/research projects or, in some countries, can propose to enroll in a graduate program. Arts applicants, please proceed to the Creative & Performing Arts Fields of Study section for

Where to get information about the fellowships

https://us.fulbrightonline.org

The RFP Program Announcement Solicitations and Program Director Where to find each of their websites

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https://www.nsfgrfp.org
https://nifa.usda.gov/funding-opportunity/agriculture-and-food-research-initiative-food-agriculture-natural-resources-and
http://sites.nationalacademies.org/PGA/FordFellowships/PGA_047958
https://ndseg.asee.org/
https://www.krellinst.org/csgf/about-doe-csgf
https://intern.nasa.gov/ossi/web/public/main/index.cfm%3FsolarAction%3Dview%26subAction%
3Dcontent%26contentCode%3DHOME_PAGE_FELLOWSHIPS
http://hertzfoundation.org/dx/fellowships/fellowshipaward.aspx
https://ffarfellows.org
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2019 NSF GRFP Deadlines

All applications are due at 5:00 p.m. local time, as determined by the applicant's mailing address.

October 22, 2018 (Monday) Geosciences, Life Sciences

October 23, 2018 (Tuesday) Computer and Information Science and Engineering,

Engineering, Materials Research

October 25, 2018 (Thursday) Psychology, Social Sciences, STEM Education and Learning

October 26, 2018 (Friday) Chemistry, Mathematical Sciences, Physics and Astronomy

November 2, 2017 (Friday) Reference Letters Due

Important Dates

→ Late July/Early August - Program Solicitation Released 👑 😁

→ Early August - FastLane Application Opened

WSU Writing/Editing Workshop, September 12. REGISTER ON-LINE

- → Late October (you)/Early November (refs) Application Deadlines (determined by discipline)
- → Early April Awards Announced
- → Early May Fellows Acceptance Deadline

Editing Workshop (September 12, 2:10; register on line)

- Sign up today (can find through Grad School Events Calendar)
- https://gradschool.wsu.edu/pdi/event/graduate-student-prestigious-fellowship-workshop-ii/
- Start writing yesterday.
- This is an exercise in writing but mostly in rewriting.
- For best results, have several professors and students in your field review your proposal. Provide them with the program announcement.
- Listen carefully to the commonalities that you hear from everyone. Is your essay hard to follow because of its organization? Have you explained it well to a naïve but sophisticated reviewer?
- Option: Send draft essays to kahn@wsu.edu as Word documents before September 6, 2018. We will try to provide feedback to you on September 12.

The Editing Workshop (2:10, September 12; register on line)

Getting started: valuable sites for models

- http://www.alexhunterlang.com/nsf-fellowship
 - Site is especially valuable because it has links to lots of essays from Fellows (successful!)
- http://www.malloryladd.com/nsf-grfp-advice.html
 - Advice to Applicants of the NSF's Graduate Research Fellowship Program (GRFP)
 - Mallory is a graduate student in Analytical Chemistry at Tennessee and has written a very useful guide.
 - "I enjoy learning new languages, experiencing new cultures, rock climbing, reading, hiking, yoga, film, anything that has caffeine in it, and all things pink."
- http://www.clairemckaybowen.com/fellowships.html
 - "I am a NSF GRFP fellow from 2015 and worked for the University of Notre Dame's Office of Grants and Fellowships for application cycles (2014-2015, 2015-2016), helping other grad students apply for the NSF GRFP."

The Editing Workshop (2:10, September 13; register on line)

http://www.alexhunterlang.com/nsf-fellowship

- Contents
 - 1 What is it?
 - 2 Basic Outline of Application Process
 - 3 Tips for Getting Started
 - 4 General Advice
 - 5 Review Criteria Details
 - 6 Review Criteria: My Two Cents
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 - 8 Personal Statement, Relevant Background, and Future Goals Essay: My Two Cents
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 - <u>10 Graduate Research Statement: My Two Cents</u>
 - 11 Examples of Successful Essays

http://www.alexhunterlang.com/nsf-fellowship

<u>Examples of Successful Essays</u>

STEM Education and Learning

Life Sciences - Biochemistry

Life Coloness - Neuropolones

Life Sciences - Physiology

Psychology

Astrophysics

NOT OBED T	
NSF GRFP Examples :	
NOI ON I Examples.	

2017

2017

2017

2017

2017

2017

2017

2016

2016

2016

2016

Steven Sartor

Anonymous

Anonymous

Lillian Horin

Julian Wolf

Carl Fields

Carlos Sandoval

Jonathan Gerhard

Stephanie Cardenas

Alexandra Brumberg

Tommy Schuster

Sarah Blunt	2017	Astrophysics	Senior Undergrad	Winner!	Yes	Yes	NA	No
Anonymous	2017	Sustainable Chemistry	Senior Undergrad	Winner!	Yes	Yes	NA	No
Krystal Vasquez	2017	Geoscience - Atmospheric Chemistry	Second Year Grad	Winner!	<u>Yes</u>	Yes	NA	Yes
Luis Nieves	2017	Chemical Engineering	Senior Undergrad	Winner!	<u>Yes</u>	Yes	NA	No
Alex Matlock	2017	Electrical Engineering	First Year Grad	Winner!	<u>Yes</u>	Yes	NA	No
Gualberto Guzman	2017	Computer Science	Senior Undergrad	Winner!	Yes	Yes	NA	Yes

Age of Applicant

Second Year Grad

Senior Undergrad

Second Year Grad

Senior Undergrad

Conject Independ

First Year Grad

Success

Winner!

Minner

HM

Winner! and UYes

Proposal

Yes

Personal

Yes

Ratings

No

Yes

Yes

Yes

Yes

Yes

No

Yes

No

Yes

No

No

Yes

Previous

NA

NIA

Name Year Area

Elissa M. Redmiles 2017 Interdisciplinary: CS and sociology

Brittany Jack 2017 Cell Biology

Chemistry - Chemical Structure, Dynamics, and Mechanism

Mathematical Sciences - Algebra, Number Theory, and Combinatorics

Chemistry - Environmental/Atmospheric Sciences

Physics - Atomic, Molecular, and Optical Physics

Physics & Astronomy - Condensed Matter Physics

Chemistry - Chemical Structure, Dynamics, and Mechanism

The Program Announcement, Solicitation, Request for Proposal...

Make sure you have current RFP. RFPs can change.

Application date, Stipend level and budget conditions, Eligibility criteria,
Format, Supporting documents, etc.

Print out RFP and underline all of information on formatting and content.

- Follow EXACTLY all of the information on formatting.
 - Wrong format can be disqualifying. (Intellectual Merit, Broader Impacts)
- Use all of the information on content in your essays, maybe even using snippets of exact wording for some of it.
- There is no such thing as a "suggestion."
- Respond to criteria. Don't get zeroes.
- Get letters and documents ahead of time. Start NOW!

NSF Graduate Research Fellowship Program Who is your audience? "Steve Saunders"

Mild mannered WSU Professor of Chemical Engineering Many faculty at WSU have reviewed for NSF and other agencies.

- There will be three reviewers.
- They want to read a good essay/story.
- It should be well organized, have details, and be readable.
- They will triage quickly then think more about their top group.
- If funding is 17% and they get 30 proposals to review, their proposals likely will contain 5 or 6 awardees
 - ◆ They might have gotten a good subset, be in a good area, etc. means that will first cut to ~12-14 proposals and consider these in more depth

The Program Announcement, Solicitation, Request for Proposal...

Two components—"stuff" and "the vision thing"

GRFP supports individuals proposing a <u>comprehensive holistic plan</u> for graduate education that takes into account individual interests and competencies.

A holistic plan describes the experiences, attributes, and academic achievements that, when considered in combination, show how the applicant has **demonstrated potential** for significant research achievements in STEM or in STEM education.

Thus, an applicant must provide a detailed profile of her or his relevant educational and research experiences and plans for graduate education in such a way as to demonstrate this potential for significant achievements.

Good essays demonstrate potential.

The Program Announcement, Solicitation, Request for Proposal...

Criteria for Selection

The following will be considered as positive factors in choosing successful candidates:

- Evidence of superior academic achievement
- Degree of promise of continuing achievement as scholars and teachers
- Capacity to respond in pedagogically productive ways to the learning needs of students from diverse backgrounds
- Sustained personal engagement with communities that are underrepresented in the academy and an ability to bring this asset to learning, teaching, and scholarship at the
 college and university level
- Likelihood of using the diversity of human experience as an educational resource in teaching and scholarship
- Membership in one or more of the following groups whose underrepresentation in the American professoriate has been severe and longstanding:
 - Alaska Natives (Aleut, Eskimo, or other Indigenous People of Alaska)
 - Black/African Americans
 - Mexican Americans/Chicanas/Chicanos
 - Native American Indians
 - Native Pacific Islanders (Hawaiian/Polynesian/Micronesian)
 - Puerto Ricans

Applications will be evaluated by panels of distinguished scholars selected by the Academies. The panels will use academic records, essays, letters of recommendation, the application itself, and other appropriate materials as the basis for determining the extent to which candidates meet the eligibility requirements and the selection criteria. Review panels may also look at additional factors such as the suitability of the proposed institution for the applicant's plan of graduate study and the likelihood that they will require a minimum of three years to complete their Ph.D./Sc.D. study as of the 2017 fall semester.

The Program Announcement, Solicitation, Request for Proposal...

- Intellectual Merit: The Intellectual Merit criterion encompasses the potential to advance knowledge; and
- Broader Impacts: The Broader Impacts criterion encompasses the potential to benefit society and contribute to the
 achievement of specific, desired societal outcomes.

The following elements should be considered in the review for both criteria:

- 1. What is the potential for the proposed activity to:
 - Advance knowledge and understanding within its own field or across different fields (Intellectual Merit);
 and
 - b. Benefit society or advance desired societal outcomes (Broader Impacts)?
- 2. To what extent do the proposed activities suggest and explore creative, original, or potentially transformative concepts?
- 3. Is the plan for carrying out the proposed activities well-reasoned, well-organized, and based on a sound rationale? Does the plan incorporate a mechanism to assess success?
- 4. How well qualified is the individual, team, or organization to conduct the proposed activities?
- 5. Are there adequate resources available to the PI (either at the home organization or through collaborations) to carry out the proposed activities?

Additionally, Chapter II of the NSF Proposal and Award Policies and Procedures Guide states:

Broader impacts may be accomplished through the research itself, through the activities that are directly related to specific research projects, or through activities that are supported by, but are complementary to, the project. NSF values the advancement of scientific knowledge and activities that contribute to achievement of societally relevant outcomes. Such outcomes include, but are not limited to: full participation of women, persons with disabilities, and underrepresented minorities in science, technology, engineering, and mathematics (STEM); improved STEM education and educator development at any level; increased public scientific literacy and public engagement with science and technology; improved well-being of individuals in society; development of a diverse, globally competitive STEM workforce; increased partnerships between academia, industry, and others; improved national security; increased economic competitiveness of the US; and enhanced infrastructure for research and education.

What does it take to get an award?

NSF winners typically had some of following items on their CVs:

- Research experiences
- A good GPA
- Name on a publication
- Poster presentations
- Tutoring experience
- Volunteering experiences
- Internship or career related work experience
- Evidence of professional development that required initiative and was evidence of willingness of others to mentor.

The Science of Scientific Writing George D. Gopen and Judith A. Swan

http://aqualab.cs.northwestern.edu/component/attachments/download/787

Writing with the Reader in Mind: Expectation and Context

- Information is interpreted more easily if it is placed where most readers expect to find it.
- We cannot make even a single sentence mean one and only one thing; we can only increase the
 odds that a majority of readers will interpret what we have written according to our intentions.
- Information that begins a sentence establishes a perspective for viewing the sentence as a unit.
- It is obvious that a scientific document is incomplete without the interpretation of the writer; it may not be obvious that the document cannot "exist" without the interpretation of the reader.

The Science of Scientific Writing George D. Gopen and Judith A. Swan

http://aqualab.cs.northwestern.edu/component/attachments/download/787

Writing with the Reader in Mind: Expectation and Context

We now have three rhetorical principles based on reader expectations.

First, grammatical subjects should be followed as soon as possible by their verbs;

Second, every unit of discourse, no matter the size, should serve a single function or make a single point;

Third, information intended to be emphasized should appear at points of syntactic closure.

• The Personal Statement:

- Who you are
 - Who you are.
 - How you got there.
 - What is important to you and why.

- Connect who you are to
 - ¿Why should we give you money?

The format of your personal statement

- Make your essay easy to follow:
- Chronological order (maybe?)
- Headings (or at least paragraphs,
 - esp label Intellectual Merit and Broader Impacts)
- Exact wording of "suggestions" in the personal statement to flag that you responded
- If they ask for it, give it to them
- Get personal (i.e. use details and good verbs) but don't be saccharine

• The Research Statement:

- What do you want to do?
- Why is it worth doing?
- Why should you be doing it?
- How will you help it have impact?

Speak for the science that cannot speak for itself.

The Overall Format of a Research Proposal

- 1. Attention-grabbing statement of need.
- 2. Briefly summarize the state of the literature on the matter, ending with a
- 3. Statement of the problem, need, and/or gap in the literature that your proposal will address.
- 4. Clearly state a hypothesis directed to the described need.
- 5. How will you resolve this hypothesis via your methods?
- 6. How will the resolution of this hypothesis and the completion and dissemination of your research will influence the world?
- 7. Intellectual Merit and Broader Impacts.

Letters of Recommendation

- Consult the program announcement/solicitation.
- Is it appropriate to ask your advisor for a letter when you have only known them for a few months? YES
- Use three academics (and then some others?)
- Give them time. (A month or more?)
- Document your history.
- Advise your recommenders if there are specific issues you would like them to cover. Sometimes they are more credible or add to your credibility.
 - Initiative, Flexibility, Effort, Working in groups, Broader Impacts, etc.

Letters of Recommendation

- Reference letters are a key component of a strong application package.
- The most effective reference letters provide detailed and specific information about how an applicant meets the Merit Review Criteria of Intellectual Merit and Broader Impacts in context of the Graduate Research Fellowship Program.
- The reference letter should include comments on the applicant's potential for contributing to a
 globally-engaged United States science and engineering workforce, statements about the
 applicant's academic potential and prior research experiences, statements about the applicant's
 proposed research, and any other information to enable review panels to evaluate the
 application according to the NSF Merit Review Criteria.
- After the applicant completes the references section of the GRFP application, reference writers
 will receive an email detailing the requirements for the letter and the submission process.
- All reference letters must be submitted electronically via the NSF's FastLane Module and received by the November 2 deadline for the current competition.

Who is your team?

You (singular).

Your advisor, committee, colleagues.

WSU Mentor. Faculty and student volunteers who are willing to read and comment on your application.

WSU Internal eREX https://myresearch.wsu.edu/Grants/ERex.aspx#/list Proposals are submitted by institution.

There is a protocol. Give them time to get it together.

Adam Williams (<u>adam.williams@wsu.edu</u>) or Casey Keller (<u>casey.keller@wsu.edu</u>) in the Graduate School can help you

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You (plural).

A summary

- Prestigious Fellowships are good for you.
 - Money, flexibility, prestige
- You (sometimes) get them by applying for them
 - You don't apply, you don't get.
- Agencies and foundations award Prestigious Fellowships.
 - They have their reasons. Know your audience.
 - Different eligibility criteria might fit different stages of your career.
 - The Golden Rule: Those who have the gold make the rules.
- To get one, you need to fit their criteria as well or better than the competition.
 - Position yourself.
 - Personal statement.
 - Research plan.
 - Record of accomplishment.
 - People who vouch for you.
- You need to follow instructions.
 - Plan ahead.
 - Deadlines and deadlines before deadlines.

Thank you!

Sept 12 workshop

https://gradschool.wsu.edu/pdi/event/graduate-studentprestigious-fellowship-workshop-ii/

Essays to me (kahn@wsu.edu) by Sept 5; we will try to get them read