Save The Date:

**BMS Recruitment Weekends: January 11 – 13, 2018 and February 8-10, 2018**
Current graduate students and faculty, please set aside some time during these dates to assist/volunteer with recruiting events and social activities. More details to follow.

**Plant Science Recruiting Weekend: February 1-4, 2018**
Most activities will take place on Friday, Feb. 2, so please reserve this date to help recruit outstanding plant science Ph.D. applicants to MSU. More details to follow.

**Calendar:**

**Monday, November 13:**
**BMS Research Forum:** Scott Funkhouser; “Deciphering Sex-Specific Genetic Architectures Using the UK Biobank”; 12:00 PM; 162 Food Safety

**Genetics Journal Club:** Jeff Schachterle; “Small RNA Regulation of Bacterial Motility”; 1:00 PM; 1425 BPS

**Entomology Seminar:** Jeff Lockwood, University of Wyoming; “When an Entomologist Writes Mysteries: Extermination and Murder”; 4:00 PM; 244 Natural Science

**WiPS Post-doc Talk:** Nate Good, Martinez-Gomez Lab; “Expanding the Lanthanide-effect to Multi-carbon Metabolism in Bradyrhizobium Diazoefficiens USDA 110”; 12:00 PM; 1425 BPS

**Tuesday, November 14:**
**MMG Seminar:** Karen Ottemann, UC Santa Cruz; “Helicobacter Pylori Chemotaxis in the Stomach: Signaling Diversity and Niche Colonization”; 11:00 AM; 101 Biochemistry

**DOE Plant Research Seminar:** Preston Dilbeck, Montgomery Lab; “Physiological Roles of Orange Carotenoid Protein Homologs”; 12:00 PM; 168 Plant Biology
**MSU Technology Seminar:** Dr. Bob Dass and Dr. Nilshad Salim, Pall ForteBio Field Applications; Heidi Morgan, Pall ForteBio Sales Manager; 9:00 AM; B448 Life Sciences

**Genomics Core Seminar:** Dr. Kevin Childs, Director of the Genomics Core and Assistant Professor; “Long Read and cDNA Sequencing with Nanopore Technology”; 12:00 PM; 162C Food Safety

**Wednesday, November 15:**

**3M Interest Group:** Clarisse Finders, Hegg Lab; “The Joke's on Us: Mechanistic Studies of Enzymatically Produced Laughing Gas”; 4:00 PM; iCER Seminar Room (1455-A BPS)

**CMB 892 Research Forum:** Casey Johnny; “Probing the Biochemical Continuity of the Plastid and ER Using the Gibberellin Biosynthetic Pathway”; 12:00 PM; 1425 BPS

**Thursday, November 16:**

**BMB Colloquium Series:** Greg Vanlerberghe, University of Toronto; “A Role for the Alternative Oxidase in Photosynthesis-Respiration Interactions and Growth”; 11:00 AM’ 101 Biochemistry

**EEBB Seminar:** Ariana Strandburg-Peshkin, Max Planck Institute for Ornithology; "Collective Movement in Animal Societies"; 3:30 PM; 1420 BPS

**Physiology Seminar:** Dr. Wenjing Wang, Stanford University; "Molecular Tools for the Temporally Resolved Labeling of Activated Neurons and Detection of Protein-protein Interactions"; 4:00 PM; 1425 BPS

**Food Evolution Screening:** Join us for an exclusive screening of FOOD EVOLUTION, a film from Academy Award nominee Scott Hamilton Kennedy and narrated by Neil DeGrasse Tyson; 7:00 PM; B119 Wells

**Friday, November 17:**

**Pharm Tox Seminar:** Dr. Yuqing Eugene Chen; “TBD”; 9:00 AM; B448 Life Sciences

**Science at the Edge:** Jeff Gore, Massachusetts Institute of Technology; “A Bottom-up Approach to microbial Community Assembly”; 11:30 AM; 1400 BPS

**BEACON Seminar:** Eben Gering, MSU; “TBA”; Amanda Perofsky, UT; “Gut Microbiome Diversity Across Sympatric Animal Populations Reflects Diet, Habitat Use, and Host Phylogeny”; 3:30 PM; BEACON Conference Room

**Plant Biology Seminar:** Cynthia Weinig, University of Wyoming; “Quantitative Variation in the Circadian Clock Affects Fitness in Complex Natural Environments”; 3:30 PM; 1200 MPS

**Announcements:**

**National Science Foundation Graduate Research Fellowship Program**
Congratulations! This year, 10 MSU students, including 4 first-year BMS students and 3 second-year (former) BMS students participated in a peer review group for the National Science Foundation’s Graduate Research Fellowship Program. All of them submitted excellent proposals and we hope to hear good news from them when fellowships are awarded in the Spring! Those students include: Aiko Turmo (BMS), Melanie Bernard (BMS), Osama Alian (BMS), Alex Aaring (BMS), Kody Duhl (BMB), Tom Dixon (CMSE), Danielle Young (PLB), Olivia Walser (MMG), Cody Madsen (BMB), and Nils Bennign (BMB).
Academic Women’s Forum  
**November 14th, 3:30 – 5:00 PM; 110 Chittenden Hall**

All faculty, academic staff, post-docs, librarians and graduate students who identify as women are cordially invited to participate in the MSU Academic Women’s Forum. The forum has been created to provide a safe-space to connect, build community and explore issues that are relevant to the success, support and empowerment of academic women at Michigan State University.

Jorge Cham, Creator of PhD Comics  
**November 15th, 6:30 PM (Resource Fair), 7:00 PM (Presentation); E100 VetMed**

A free event sponsored by the Council of Graduate Students, PhD Career Services, and The Graduate School, presents Jorge Cham, the creator of PhD Comics. Renowned lecturer, Jorge Cham received his B.S from Georgia Tech and his PhD in mechanical engineering from Stanford. Come to the VetMed center to see his presentation of “The Power of Procrastination: Academic Life, Managing Stress, and Finding Motivation in Research”. RSVP at [http://goo.gl/qfcb3U](http://goo.gl/qfcb3U)

COGS Annual Detroit Red Wings Bus Trip  
**November 19th, 5:30 PM**

A limited number of tickets will go on sale Oct. 17th at 9:00 AM. Game Date is Sunday, November 19th - puck drops at 6:00 pm. See the Detroit Red Wings face the Colorado Avalanche at their new home in Little Caesars Arena. Ticket Combo costs $36 and includes: (1) game ticket, round-trip charter bus transportation, and a $10 concessions credit. Limit 2 combos per student. **Tickets will go on sale 10/17 at 9:00 am. Link to order:** [https://commerce.cashnet.com/msu_3754](https://commerce.cashnet.com/msu_3754)

Bioethics Brownbag and Webinar Series  
**November 29, 12:00 PM – 1:00 PM; C102 Patenge Room, East Fee Hall**

“Prospects, Promises and Perils of Human Mind-Reading”

Dr. Mark Reimers, Associate Professor, Neuroscience Program, Michigan State University

In recent years, several research groups have been able to infer the contents of subjects’ thoughts from fMRI scans. E-commerce sites are tracking customers’ purchases and making ever better predictions about what people will buy. What are the prospects for such technology to be widely used? Are there fundamental technical limitations?

This lecture is free and open to the public. You are welcome to bring your lunch. Beverages and light snacks will be provided. All lectures are recorded and posted online in our webinar archive.

[http://msubioethics.clickwebinar.com/brownbag](http://msubioethics.clickwebinar.com/brownbag)

Graduate Student Life & Wellness Events  
Grad Group Fitness Classes

Register today for these fun community style fitness classes with your fellow graduate students! More information and registration can be found here: [grad.msu.edu/FitnessClasses](http://grad.msu.edu/FitnessClasses)
Announcement from the Office of Regulatory Affairs
In December 2017, Michigan State University is implementing a new research compliance system, Click™, to manage its Institutional Review Board (IRB) activities. This will affect graduate students with current and future human subjects’ research applications and protocols. Click™ will help streamline the compliance process and enhance security and application transparency for student and faculty investigators.

Educational opportunities, quick guides, and video demonstrations will be available on the Research Administration Project website this fall. There will be additional communications this fall about the upcoming IRB implementation, including training dates and the transition process for active projects. We encourage you to participate in these educational opportunities if your research involves human subjects. Please visit the Human Research Protection Program’s website and the Research Administration Project website for additional information.

Midwest Chromatin and Epigenetics Meeting
June 10-12; Purdue University

The 2018 Midwest Chromatin and Epigenetics Meeting will bring together more than 200 scientists from the American Midwest who study transcription, chromatin biology and epigenetics. The meeting provides an excellent opportunity to share scientific insight, foster the exchange of new ideas and to enhance collaboration.

The MCEM program will include a Keynote Seminar by Prof. Karolin Luger, Univ. Colorado Boulder, invited speakers, selected speakers from submitted abstracts, and a poster session. The MCEM 2018 program will provide opportunities for postdocs, graduate and undergraduate students to present their research and are highly encouraged to attend.

Session topics: Transcription and Gene Expression, RNA-Dependent Epigenetic Regulation, Chromatin Remodeling and Structure, Nucleic Acid Modifications and Chromatin Biology, Histone Modifications and Binding Proteins, Plant Chromatin Biology, or Epigenetics in Development and Disease.

Course Announcement: Thermodynamics with Applications to Biomolecules
CEM 882, Tu/Th 10:20 – 11:40 AM, 3 Credits, Spring 2018

If you have questions, please contact Dr. David Weliky (weliky@chemistry.msu.edu)


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| January 8 – 19     | Review of Protein and Nucleic Acid Structure | VV, Chapter 4, 5.1-5.3, 8.1, 8.3-8.5  
                          |                                      | VJH, 1.5                           |
| January 22 – 26    | Probability and Entropy              | DB, Chapters 1-3                  
                          |                                      | VJH, Chapter 2.1,2.2               |
| January 29 – February 2 | Boltzmann Law and Partition Function | DB, Chapters 6,7,10              |
Course Announcement: Biotechnology for Health and Sustainability
BMB 961, Section 001, 3 Credits, Spring 2018

Coordinator: Bjorn Hamberger (hamberge@msu.edu)
Other Participating Faculty: Christoph Benning (instructor), Tom Sharkey (instructor), invited MSU Faculty and External Participants

Date/time: Tuesdays/Thursdays, 9:00-10:20 AM, 1030 Molecular Plant Sciences

Prerequisites: Basic knowledge in molecular biology, genomics, or plant biochemistry as demonstrated by having completed at least one of the following graduate level classes: BMB801 molecular genetics, BMB961 plant biochemistry, BMB865 plant molecular biology

Limitation: 15 Students

Description: This course is part of an interdisciplinary effort to foster opportunities for graduate students with interest in biotechnology for applications in health and sustainability. Despite building on cases from plant biotechnology, this course invites students with broad interests, also outside the field of photosynthetic systems, to join. A broad overview of the state-of-the art of plant biotechnology and related fields will be explored. You will be encouraged to think about concepts and ideas that can be potentially commercialized and the different, individual perspectives discussed will shape the overall course. Examples debated will highlight, but are not limited to plant metabolic pathways that impact human health and nutrition, as well as sustainability in the production of therapeutics, food and biomaterials. Case studies will be discussed that cover expression hosts, strategies and pitfalls in transferring and expression of foreign pathways. Examples are chosen to explain in simple terms basic metabolic engineering principles, including synthetic biology approaches to generate, analyze, and optimize transgenic platforms. Some of the chosen cases will be particularly suited to discuss regulatory and commercial issues related to genetically modified organisms (GMOs) and the ‘share-your-parts’ philosophy, as promoted for example by the international genetically modified machine (iGEM) initiative. To actively participate in the course, you need to have a basic understanding of molecular biology, genomics, or biochemistry, and are expected to read background and original research papers as assigned. Participants will be guided to develop a 3-page brochure presenting a scientific idea for a biotechnology based product or process with a recognized need or a new opportunity. You will need to lay out the idea, present reasonable milestones and be aware of potential technical, commercial,
societal hurdles, and articulate how the proposed technology would address the need or opportunity. Relevant concepts (novel technologies for genome editing, societal acceptance and outreach, IP aspects) will be discussed and a list of topics will be developed during the course together with the students. The instructor(s) will provide guidance and feedback to you on an individual base as you develop your project, and for both take home assignments. During the final sessions of the semester, everyone will be asked to present their idea/spin-out in a 10-min pitch, followed by feedback from the entire group. This will include, where relevant, involvement of the MSU Innovation Center.

Note: if you are not a Biochemistry Graduate Student, you’ll need to submit the BMB online course override form found in the “Undergraduate” drop down menu on the BMB Dept. website homepage: www.bmb.natsci.msu.edu

Workshops:

Genomics Core Workshop: How Much Sequencing do I Need?
**November 29th, 2:00 PM – 3:00 PM; 162C Food Safety**

The most common question that we hear at the Genomics Core is how much sequencing is required for a given project. There are a number of parameters to consider when answering this question, but the calculations are not difficult once you are familiar with the process. This will be an activity driven workshop. Please bring paper, a pencil and a calculator. We will discuss how to request sequencing for a genome sequencing project, a gene expression project, an amplicon sequencing project and a metagenomic whole genome sequencing project. We will run the numbers for hypothetical projects, but you can work out the calculations for your own project too.

This is the third presentation of this workshop that had been also been given in September and October.

Job Opportunities:

Post-doctoral Position in NK Cell Biology
The Cooper laboratory at Washington University in St. Louis is looking for a full-time post-doctoral research associate. Our laboratory investigates natural killer cell biology with an emphasis on metabolic regulation of NK cell function using both murine and human model systems. This research is supported by an NIH R01 grant.

Applicants should have a PhD degree and a background in immunology, and at least two first-author publications in peer-reviewed journals indexed in PubMed. Working with animal models is required for this position and prior experience working with mouse models and/or flow cytometry is preferred. Specific duties include managing a research project, open and timely discussion and communication with research mentor, critical evaluation of the scientific lecture, writing research publications, assisting with grant preparation, and maintaining compliance with good laboratory practice.

Interested applicants should send a cover letter, CV, and three references to: Dr. Megan Cooper, Washington School of Medicine, Cooper_m@wustl.edu
Positions Available at the University of Kansas
Assistant or Associate Professor in Biochemistry, Assistant or Associate Professor in Microbial Pathogenesis; Department of Molecular Biosciences

We invite applications for two faculty positions as tenure-track assistant or associate professors. One position is in the area of Biochemistry and another in the area of Microbial Pathogenesis. Candidates are expected to develop an internationally visible, rigorous, and well-funded research program and to effectively teach and mentor undergraduate and graduate students. Included for the Microbial Pathogenesis faculty position are specific resources and support mechanisms associated with the NIH Chemical Biology for Infectious Disease Center of Biomedical Research Excellence (https://cbid.cobre.ku.edu/). As such, preference will be given to those applicants with current or future plans that incorporate an aspect of chemical biology into their research.

The University of Kansas is a member of the prestigious Association of American Universities. KU is a major educational and research institution located in Lawrence, a vibrant, thriving community of more than 90,000 and close to Kansas City and the KU Medical Center.

Applicants must have a PhD or equivalent degree in the chemical or biological sciences and at least two years of post-doctoral research experience. Applicants at the Assistant Professor level are expected to demonstrate potential for establishing an independent, externally-funded research program, and those at the Associate level must have extramural funding (as PI or MPI) with clear potential for continuance. The successful candidate will also direct graduate student research and participate in the undergraduate and graduate teaching missions of the University. Minorities, women, veterans and those with disabilities are strongly encouraged to apply. The University of Kansas values candidates who have experience working with students from diverse backgrounds and possess a strong commitment to improving access to higher education for historically under-represented minorities.

To apply online, go to:

Biochemistry:  https://employment.ku.edu/academic/10020BR

Microbial Pathogenesis - https://employment.ku.edu/academic/9958BR.

A complete online application includes the following materials: a cover letter, curriculum vitae, statement of current research achievements and future research plans, statement of teaching interests and philosophy, and the names and contact information for at least three professional references. Review of applications will begin November 1, 2017 and will continue as long as required to identify a qualified pool. Position inquiries can be directed to Dr. Audrey Lamb (biochemistry position, lamb@ku.edu) or Dr. Scott Hefty (microbial pathogenesis position, pshefty@ku.edu).

Postdoctoral Position Available at Sloan-Kettering Institute, New York City

The Lai laboratory has a funded postdoctoral position available to study intragenomic conflicts across Drosophila species and their control by endogenous RNAi. In prior work, we showed that RNAi has a major role in regulating spermatogenesis, via a special class of rapidly evolving siRNA substrates termed hpRNAs. In ongoing unpublished work, we characterized the genomics of hpRNAs across the Drosophilids, which we believe unlock a map of genomic conflicts controlled by RNAi pathway. We also knocked out the RNAi pathway in a non-model fruit fly and revealed surprising male-specific phenotypes much more overt than in D. melanogaster, reflecting depression of emergent meiotic drive systems that do not exist in the flagship fruit fly.
We know little of the profound activities of recently-emerged selfish genes that are controlled by hpRNAs and how they affect gametogenesis, and how such factors come to be recognized and extinguished by small RNA pathways. These topics are central to understanding the biology of RNAi and mechanisms of speciation. To elucidate these questions, the ideal postdoctoral candidate will have familiarity with Drosophila genetics and genome engineering, and integrate these techniques with molecular and genome wide approaches in the context of gonadal biology. As well, this project is relevant to other interests in the group that examine the testis with respect to rapidly-evolving miRNAs and protein-coding genes, and specialized post-transcriptional regulatory pathways, that all reflect the unique gene expression environment of this tissue.

If interested, please contact laie@mskcc.org with research statement and CV.

Postdoctoral Position Available at Plant Research Laboratory at Michigan State University
A post-doc position is available in the Brandizzi lab at the Plant Research Laboratory at Michigan State University. The position is available immediately and it is for two years with the possibility of an extension depending on availability of funding.

The position is to work on ER stress responses in plants. The project will employ molecular and biological approaches to study the contribution of gene regulatory networks on ER stress and growth in plants with focus on maize. The applicant must have a strong background in molecular biology, gene expression analyses and genomics. Experience of working with maize is desirable but not essential. The selected candidate for the position will join a multidisciplinary team working on an NSF Plant Genome Initiative award.

Interested applicants should send curriculum vitae with a description of scientific interests, description of prior research and names of 3 referees.

For inquiries, please email Dr. Federica Brandizzi (fb@msu.edu).

Tenure Track Faculty Positions Focused on Cryo-EM at Michigan State University
The Department of Biochemistry and Molecular Biology (http://bmb.natsci.msu.edu/) at Michigan State University seeks outstanding applicants for two tenure-track positions at the Assistant/Associate level with expertise in cryo-electron microscopy (Cryo-EM) and the ability to develop a vigorous, externally funded research program that will complement existing strengths in the areas of structural, membrane protein, computational, microbial, and plant biochemistry. Michigan State University is committed to building a state-of-the-art Cryo-EM facility to support this research area. The successful candidates must hold a PhD, or equivalent, have a minimum of two years’ postdoctoral research experience, and will be expected to contribute to teaching at the undergraduate and/or graduate level.

Review of application materials will begin on December 15, 2017. Application materials should include a cover letter, curriculum vitae, statement of research accomplishments, a proposal for future research (up to five pages), a one-page teaching statement, and three letters of references. We request that letters from references are sent directly to BMB.Search@msu.edu. The application materials should be combined into a single PDF file and must be uploaded electronically at https://jobs.msu.edu for posting #XXXX. Questions regarding the position may be directed to Dr. Kristin Parent, Chair of the Search Committee (kparent@msu.edu).
Michigan State University is an affirmative action, equal-opportunity employer. The Department of Biochemistry and Molecular Biology and the University are committed to achieving excellence through diversity. The Department of Biochemistry and Molecular Biology and the University actively encourage applications from women, persons of color, veterans, and persons with disabilities. The University endeavors to facilitate employment assistance for spouses or partners of candidates for faculty positions.

Multiple Postdoctoral Positions in Computational Biology and Bioinformatics at Cold Spring Harbor Laboratory

Post-doctoral fellow positions in computational biology focusing on gene expression.

Cold Spring Harbor Laboratory invites applications for post-doctoral positions in the laboratory of Dr. Jesse Gillis and colleagues. The successful candidates will join a team at CSHL working to understand the molecular and functional basis of cellular properties, focusing on mammalian brains. This is a largescale project involving a number of complementary positions, ranging from bioinformatics, to neuroscience, to molecular genetics. While the focus of the position is computational, all projects involve substantial collaboration with wet-lab researchers generating unique data. This interdisciplinary work offers opportunities to address important questions in computational biology and neuroscience with first access to large novel data sets from single-cell RNA-seq. The expected duration of the position is approximately 3-5 years with renewal at the end of each year.

A major conceptual focus of the project will be developing new ways of assessing large-scale data for replicable signals. This position offers substantial scope for training for candidates interested in making a leap from computer science, neuroscience or genetics to data-focused research, particularly if it has arisen informally in their previous work.

In addition to a collaborative focus within the project itself, successful applicants will enjoy a wide range of educational opportunities at Cold Spring Harbor Laboratory. Cold Spring Harbor Laboratory is a world-renowned research and educational institution with programs in cancer, neuroscience, plant biology, genomics and bioinformatics. The Laboratory is recognized internationally for its excellence in research and educational activities.

Position Requirements

This research sits at the intersection of three research areas: Computational analysis, genetics, and neuroscience. A strong candidate would have expertise in two out of the three areas and an interest in learning about the third. While broad ranges of backgrounds are suitable for this position, a PhD in bioinformatics or computational biology is desirable.

A particular focus of our methodological research is replicability and meta-analysis and an interest in these areas is helpful. Experience with either Matlab or R is a plus.

Exceptional applicants without a formal computational background will also be considered, particularly if they are familiar with standard bioinformatics tools.

Please include a letter of interest outlining your research accomplishments and include the contact information of three references. Applications can be sent directly to JGillis@cshl.edu.

Cold Spring Harbor Laboratory is an Equal Opportunity Employer
**Scholarships & Fellowships:**

**TIAA Ruth Simms Hamilton Graduate Merit Fellowship**
All MSU doctoral students whose dissertation research is related to the African Diaspora are eligible to apply for this Fellowship. Such research is focused on any aspect of the communities of people descended from the voluntary or forced historic movement of African peoples to other parts of the world and who are usually connected back in some way to Africa.

For more information, please visit [https://grad.msu.edu/fellowships/tiaa](https://grad.msu.edu/fellowships/tiaa)

Due date for an application is **December 15, 2017**.

**American Association of University Women (AAUW) Fellowships and Grants**

Apply for an AAUW fellowship or grant! Deadlines for 2018-2019 awards are fast approaching. For information on the follow fellowships and grants, please visit [http://www.aauw.org/what-we-do/educational-funding-and-awards/](http://www.aauw.org/what-we-do/educational-funding-and-awards/)

**American Fellowships**
Who may apply: Women pursuing full-time study to complete dissertations, conducting postdoctoral research full time, or preparing research for publication for at least 8 weeks.

Funding: $6,000 - $30,000

**Deadline: November 15**

**Career Development Grants**
Who may apply: Women pursuing a certificate or degree to advance their careers, change careers, or reenter the workforce and whose bachelor’s degree was received at least five years before the award period.

Funding: $2,000 - $12,000

**Deadline: December 15**

**International Fellowships**
Who may apply: Women pursuing full-time graduate or postdoctoral study in the United States who are not US citizens or permanent residents.

Funding: $18,000 - $30,000

**Deadline: December 1**

**Selected Professions Fellowships**
Who may apply: Women pursuing full-time study in a master’s or professional degree program in which women are underrepresented, including STEM, law, business, and medicine

Funding: $5,000 - $18,000

**Deadline: January 10**

**Community Action Grants**
Who may apply: Individuals, AAUW branches and states, and nonprofit organizations wanting to fund innovative programs or nondegree research projects that promote education and equity for women and girls.

**Deadline: January 15**

**Ford Foundation Fellowships**

The National Academies of Sciences, Engineering, and Medicine is accepting applications for the 2018 Ford Foundation Fellowships Programs for Achieving Excellence in College and University Teaching. Full eligibility information and online applications are available on our [website](http://www.nationalacademies.org/ford).

Through its Fellowship Programs, the Ford Foundation seeks to increase the diversity of the nation's college and university faculties by increasing their ethnic and racial diversity, to maximize the educational benefits of diversity, and to increase the number of professors who can and will use diversity as a resource for enriching the education of all students.

**Eligibility Requirements:**
- U.S. citizens, nationals, permanent residents (holders of a Permanent Resident Card), or individuals granted deferred action status under the Deferred Action for Childhood Arrivals Program (DACA) program, and political asylees and refugees regardless of race, national origin, religion, gender, age, disability, or sexual orientation.
- Individuals planning a career in teaching and research at the college or university level in a research-based field of science, social science or humanities.

**Stipends:**
- Predoctoral—$24,000 per year for three years
- Dissertation—$25,000 for one year
- Postdoctoral—$45,000 for one year

Awardees will have expenses paid to attend at least one Conference of Ford Fellows. Approximately 65 predoctoral, 36 dissertation, and 24 postdoctoral fellowships will be awarded.

**Application Deadline Dates:**
- Predoctoral: December 14, 2017 (5:00 PM EST)
- Dissertation: December 7, 2017 (5:00 PM EST)
- Postdoctoral: December 7, 2017 (5:00 PM EST)

Supplementary Materials receipt deadline for submitted applications is **January 9, 2018 (5:00 PM EST)**

For more information and to apply online:
- [www.nationalacademies.org/ford](http://www.nationalacademies.org/ford)
- FordApplications@nas.edu
- [https://twitter.com/NASEMFordFellow](https://twitter.com/NASEMFordFellow)
- [https://www.facebook.com/NASEM.FordFellowship/](https://www.facebook.com/NASEM.FordFellowship/)
Big Ten Academic Alliance Smithsonian Institution Fellowship
The application period for the Big Ten Academic Alliance Smithsonian Institution Fellowship is open until December 1.

This program provides a one-year fellowship to doctoral students to support research at Smithsonian Institution facilities. Students must have completed all coursework for their program, be admitted into doctoral candidacy, and completed all requirements except for completion of the dissertation. Fellowships carry a stipend of $32,700, which is paid by the Smithsonian Institution and the fellow’s home institution. For more information on the fellowship, please visit http://www.btaa.org/students/smithsonian-fellowship. On this site, you will find an Application Guide, Campus Contacts, and a link to the application portal housed with Smithsonian.

Questions about the program can be directed to Joseph Miller at BTAA. joseph.miller@btaa.org or www.btaa.org

Gilliam Fellowship
The Howard Hughes Medical Institute (HHMI) is pleased to announce the 2018 Hanna H. Gray Fellows Program competition. We know that the biggest challenges in science call for diverse perspectives and original thinking. Through the Hanna H. Gray Fellows Program, HHMI will recruit and retain individuals from groups underrepresented in the life sciences. The program will support early career scientists with the potential to become leaders in academic research. Through their successful careers, HHMI Hanna Gray Fellows will inspire future generations of scientists from America’s diverse talent pool. The Institute will select and support up to 15 Fellows in this competition. The competition is open to all eligible applicants, and no nomination is required.

We appreciate your help in distributing this program announcement and encouraging eligible individuals from your institution, and beyond, to apply. Applicants can establish eligibility and submit an application via the HHMI online competition site. Applications are due January 10, 2018, at 3:00 PM (Eastern Time).

HHMI announced the selection of 15 exceptional scientists as the inaugural class of HHMI Hanna Gray Fellows. For more information, see our HHMI.org program page or press release.

Program Overview
Fellows will receive funding ($80,000 annually) for up to four years of their postdoctoral training and may continue to receive funding ($270,000 annually) for up to four years during their early career years as independent faculty. The program includes opportunities for career development, including mentoring and active involvement in the HHMI scientific community.

Eligibility
- The program is open to individuals from gender, racial, ethnic, and other groups underrepresented in the life sciences at the career stages targeted by this program, including those individuals from disadvantaged backgrounds.
- The program is open to basic science researchers and physician-scientists in the biomedical and life science disciplines.
- The program is open to applicants of any citizenship or nationality who:
  - have a PhD and/or MD or equivalent conferred by an institution in the U.S. (including Puerto Rico) by the start of the grant term.
  - have been accepted to join a laboratory as a postdoctoral researcher at a research institution located in the U.S. (including Puerto Rico) at the time of the application due date.
• The postdoctoral training mentor must hold a tenured or tenure-track position (or equivalent) at an institution in the U.S. (including Puerto Rico).
• Applicants can have no more than 12 months of postdoctoral research experience at the time of the application due date.

Selection of Fellows
The review process will assess the applicant’s potential for a career as an independent academic researcher and the quality of the training environment with the selected mentor. The selection of finalists will be made by the end of September 2018. Awards may begin as early as September 18, 2018, but no later than January 15, 2019.

Additional Information
Additional information including a full Program Announcement is available at www.hhmi.org/hanna-h-gray-fellows. For questions, contact program staff at fellows@hhmi.org.

American Institute of Biological Sciences
Applications now being accepted for the AIBS Emerging Public Policy Leadership Award

Each year, the American Institute of Biological Sciences (AIBS) recognizes graduate students in the biological sciences who have demonstrated initiative and leadership in science policy. Recipients obtain first-hand experience at the interface of science and public policy.

Winners receive:
• **A trip to Washington, DC**, to participate in the AIBS Congressional Visits Day, an annual event that brings scientists to the nation's capital to advocate for federal investment in the biological sciences, with a primary focus on the National Science Foundation. The event will be held on April 17-18, 2018. Domestic travel and hotel expenses will be paid for the winners.
• **Policy and communications training**, including information on the legislative process and trends in federal science funding.
• **Meetings with congressional policymakers** to discuss the importance of federal investment in the biological sciences.
• **A one-year AIBS membership**, including a subscription to the journal *BioScience* and a copy of "Communicating Science: A Primer for Working with the Media."

The 2018 award is open to U.S. citizens and U.S. permanent residents enrolled in a graduate degree program in the biological sciences, science education, or a closely allied field. Applicants should have a demonstrated interest in and commitment to science policy and/or science education policy.

The deadline to apply is January 17, 2018. Learn more