



## **FY 2016 Research Workshop Series**

### **Foundation Workshop: Roadmap for Early Career Faculty**

#### **Agenda**

**Wednesday, October 21, 2015**

**11-1** The Stamp; Benjamin Banneker 2212

**Co-hosted by: Division of Research and**

**University Relations Office of Corporate and Foundation Relations (C&FR)**

**Facilitator: Chandrika Rallapalli**, Director, C&FR

**Guest speaker: Vedran Lekic**, Assistant Professor, Geology, and 2014 Packard Scholar

**Goal:** This workshop serves as a roadmap for early career faculty in how to pursue non-traditional funding opportunities with private foundations. The goal is to deliver information on the current foundation funding landscape so that early career faculty better understand the paradigm and are therefore better prepared to pursue and win these types of research opportunities.

**Examples of funders to be discussed:** The Kavli Foundation, Howard Hughes Medical Institute, Simons Foundation, The Bill and Melinda Gates Foundation, Gordon and Betty Moore Foundation, Alfred P. Sloan Foundation, Beckman Foundation, Packard Foundation., et al.

- |       |   |
|-------|---|
| 11:00 | <b>Welcome</b><br><i>Tara Burke</i>   |
| 11:05 | <b>Foundation Landscape and Roadmap for Early Career Faculty</b><br><i>Chandrika Rallapalli</i> |
| 11:45 | <b>Break, lunch service, sign up for SPIN</b>   |
| 12:00 | <b>Packard Experience Overview</b><br><i>Vedran Lekic</i>                                       |
| 12:30 | <b>Discussion/Questions</b><br><i>All</i>   |
| 1:00  | <b>Adjourn/Sign up for SPIN</b>   |





## Research Development Resources (October 2015)

1) **VPR Website:** [research.umd.edu](http://research.umd.edu); Research Development dropdown tree



2) **Faculty Incentive Programs:** <http://research.umd.edu/development/faculty-incentive>

- Tier 1: up to \$50K – seed grant/proof of concept – June 1 and Dec 1
- Tier 2: up to \$75K – multidisciplinary, >\$2M or highly visible
- Tier 3: up to \$150K – campus wide research initiatives
- Ad hoc (small dollar amounts)

3) **Joint Seed Grant Programs:** <http://research.umd.edu/seed-grant-programs>

- UMD-Smithsonian – @ April
- UMD-UMB – Spring semester
- FIA (periodic)
- UMD-NCI graduate (periodic)
- IBBR (UMD, UMB, NIST) (periodic)
- UMD-Leidos (periodic)
- UMD-MITRE (periodic)

4) **CompetitionSpace:** Limited Submission SaaS web tool: <https://umd.infoready4.com/> (all LS) – find out about upcoming opportunities here

5) **Funding Database – InfoEd: SPIN** <https://spin.infoedglobal.com/Authorize/Login>

6) **Early Career Faculty List:** - <http://research.umd.edu/proposalwritingresources>

7) **Proposal Library:** - <http://research.umd.edu/proposal-library> - tend to be the big programs – actively wanting to expand this list.

8) **Faculty Expertise database:** <http://expertise.umd.edu/home.jsf>

9) **Funding Alerts (Weekly)** – opt in via: <http://goo.gl/forms/ZiEqRHw0Zo>.

10) **Research @ UMD Newsletter** – 3 per semester

11) **Periodic grant-writing workshops and seminars** – check website and newsletter

12) **Follow us on Twitter!** [@UMDResearch](https://twitter.com/UMDResearch)

### Contacts:

**Ken Gertz:** [kgertz@umd.edu](mailto:kgertz@umd.edu) | 301-405-4462; **Eric Chapman** [echapman@umd.edu](mailto:echapman@umd.edu) | 301-405-7136  
**Tara Burke** [tburke13@umd.edu](mailto:tburke13@umd.edu) | 301-405-4178

## Critical Questions for Research Proposals

As director of [ARPA](#) in the 1970's [George H. Heilmeier](#) developed a set of questions that he expected every proposal for a new research program to answer. He referred to them as the "Heilmeier Catechism". These questions still survive at DARPA and provide high level guidance for what information a proposal should provide. It's important to answer these questions for any individual research project, both for yourself and for communicating to others what you hope to accomplish. These questions are:

1. What are you trying to do? Articulate your objectives using absolutely no jargon. What is the problem? Why is it hard?
2. How is it done today, and what are the limits of current practice?
3. What's new in your approach and why do you think it will be successful?
4. Who cares?
5. If you're successful, what difference will it make? What impact will success have? How will it be measured?
6. What are the risks and the payoffs?
7. How much will it cost?
8. How long will it take?
9. What are the midterm and final "exams" to check for success? How will progress be measured?

The [IEEE Spectrum](#) magazine published a profile of Dr. Heilmeier in the June 1994 issue:

### [George H. Heilmeier](#)

by Joshua Shapiro

*IEEE Spectrum*, Volume 31, Issue 6, June 1994, Pages 56 - 59

Digital Object Identifier 10.1109/6.284787

Summary: The head of one of the foremost research organisations in the United States -- Bell Communications Research Inc. -- is guided by the traditional values he learned as a boy. The author describes how these values have guided George Heilmeier through four distinguished careers on the frontier of high-technology development.



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Category	Agency	Program	Total Money	Length of Grant	Planning Month	Dates to Keep in Mind	Limited Submission? And # allowed	Topics	Website
Health, Disease, or Biomedical	American Cancer Society (ACS)	Mentored Research Scholar Grant	675000 + \$50,000 for mentor	5 years	January	April 1, October 15 - Full Application Deadline	n/a	Cancer	<a href="http://www.cancer.org/research/applyforresearchgrant/granttypes/mentored-research-scholar-grants">http://www.cancer.org/research/applyforresearchgrant/granttypes/mentored-research-scholar-grants</a>
Health, Disease, or Biomedical	American Cancer Society (ACS)	Research Scholar Grants	\$660,000	4 years	January	April 1, October 15 - Full Application Deadline	n/a	Cancer	<a href="http://www.cancer.org/research/applyforresearchgrant/granttypes/research-scholar-grants">http://www.cancer.org/research/applyforresearchgrant/granttypes/research-scholar-grants</a>
Health, Disease, or Biomedical	American Diabetes Association	Junior Faculty Development	\$276,000 - \$552,000 plus \$10k/yr in loan forgiveness	2-4 years	January	April - Applications Due	n/a	Diabetes	<a href="https://professional.diabetes.org/Diabetes_Research.aspx?typ=18&amp;cid=93971#F_Award">https://professional.diabetes.org/Diabetes_Research.aspx?typ=18&amp;cid=93971#F_Award</a>
Health, Disease, or Biomedical	American Speech-Language-Hearing Foundation (ASHF)	New Investigators Research Grant	\$10,000	1 year	January	April - Full proposal due	n/a	Audiology, Speech-language pathology	<a href="http://www.ashfoundation.org/grants/New-Investigators-Research-Grant/">http://www.ashfoundation.org/grants/New-Investigators-Research-Grant/</a>
General Sciences	Arnold and Mabel Beckman Foundation	Beckman Young Investigators	\$750,000	4 years	January	Spring 2016 for 2017 cohort	n/a	Chemical & Life Sciences	<a href="http://www.beckman-foundation.com/beckman-young-investigators">http://www.beckman-foundation.com/beckman-young-investigators</a>
Health, Disease, or Biomedical	Foundation for Child Development	Young Scholars Program	\$225,000	2-3 years	January	May - Application due	n/a	Early learning and child's development	<a href="http://fcd-us.org/our-work/young-scholars-program">http://fcd-us.org/our-work/young-scholars-program</a>
General Sciences	Henry Luce Foundation	Clare Boothe Luce	Varies	Varies	January	March - Information forms due; August - Full Proposals Due	n/a	Women in the sciences that are most underrepresented (physics, computer science, mathematics, electrical engineering, mechanical engineering, etc.)	<a href="http://www.hluce.org/cblprogram.aspx">http://www.hluce.org/cblprogram.aspx</a>
Specific Sciences	NASA	ROSES: New (Early Career) Investigator Program in Earth Science	\$80,000	3 years	January	6/30/2015	n/a	Earth Science: included in the ROSES call every two years	<a href="http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&amp;solId={2D9D402B-F2AE-B613-5734-FBCA7E3DAE3C}&amp;path=open">http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&amp;solId={2D9D402B-F2AE-B613-5734-FBCA7E3DAE3C}&amp;path=open</a>
Humanities or Social Sciences	Stanford Humanities Center	External Faculty Fellowships	\$70,000 + \$30,000 housing stipend	1 year	January	Contact institution for deadline	n/a	Humanities	<a href="http://shc.stanford.edu/fellowships/non-stanford-faculty">http://shc.stanford.edu/fellowships/non-stanford-faculty</a>
Specific Sciences	International Life Sciences Institute	Future Leader Award	\$30,000	2 years	February	19-Jun-15	n/a	Nutrition, nutrition and toxicology, or nutrition and food science	<a href="http://www.ils.i.org/NorthAmerica/Pages/AwardPrograms.aspx">http://www.ils.i.org/NorthAmerica/Pages/AwardPrograms.aspx</a>



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General Sciences	Research Corporation for Science Advancement	Cottrell Scholar Award	\$100,000	3 years	February	May - Pre-proposal due; August - full proposal due	n/a	Astronomy, chemistry or physics	<a href="http://rescorp.org/cottrell-scholars/cottrell-scholar-award">http://rescorp.org/cottrell-scholars/cottrell-scholar-award</a>
Humanities or Social Sciences	Smith Richardson Foundation	Strategy & Policy Fellows Program	\$60,000	1 year	February	June - Applications due	n/a	American foreign policy, international relations, international security, military policy, and diplomatic and military history	<a href="https://www.srf.org/programs/strategy-policy-fellows-program/">https://www.srf.org/programs/strategy-policy-fellows-program/</a>
Health, Disease, or Biomedical	National Ataxia Foundation	Young Investigator (YI) Award	\$35,000	1 year	March	August - LOI due; September - full application due	n/a	Ataxia	<a href="http://www.ataxia.org/research/ataxia-research-grants.aspx">http://www.ataxia.org/research/ataxia-research-grants.aspx</a>
General Sciences	NSF	Faculty Early Career Development Program (CAREER)	\$400,000 - \$500,000	5 years	March	July deadlines for applications	n/a	Biology; Computer & Information Sciences; Education & Human Resources; Engineering; Geosciences; Mathematical & Physical Sciences; Social, Behavioral & Economic Sciences	<a href="http://www.nsf.gov/publications/pub_summ.jsp?WT.z_pims_id=503214&amp;ods_key=nsf15555">http://www.nsf.gov/publications/pub_summ.jsp?WT.z_pims_id=503214&amp;ods_key=nsf15555</a>
Multiple Types of Disciplines	Department of State	Fulbright Postdoctoral Scholar Awards	Varies	3 - 12 months	April	Beginning of August - full applications due	n/a	STEM, the arts, humanities, social sciences	<a href="http://www.cies.org/program/postdoc">http://www.cies.org/program/postdoc</a>
General Sciences	Alfred P. Sloan Foundation	Sloan Research Fellowships	\$50,000	2 years	May	September 15 - Applications Due	3 per department	Chemistry, Computational or evolutionary molecular biology, computer science, economics, mathematics, neuroscience, ocean sciences, physics, or related field	<a href="http://www.sloan.org/sloan-research-fellowships/">http://www.sloan.org/sloan-research-fellowships/</a>
Health, Disease, or Biomedical	Alliance For Cancer Gene Therapy (ACGT)	Young Investigator Award	\$250,000	2-3 years	May	every year in September	n/a	<ol style="list-style-type: none"> <li>1. Tumor-specific replicating viruses and bacteria</li> <li>2. Anti-angiogenesis</li> <li>3. Immune-modulatory Therapy and Cancer Vaccines</li> <li>4. Oncogene/Suppressor Oncogene/Apoptosis Directed Therapy</li> <li>5. Tumor Targeting and Vector Development</li> <li>6. Cancer Stem Cell Directed Therapy</li> <li>7. Other Gene/Cell based Therapies</li> </ol>	<a href="http://www.acgtfoundation.org">www.acgtfoundation.org</a>
Health, Disease, or Biomedical	Edward Mallinckrodt, Jr. Foundation	Mallinckrodt Grant	\$180,000	3 years	May	August 1 - Full proposal deadline	2	Biomedical research	<a href="http://emallinckrodtfoundation.org/Guidelines.html">http://emallinckrodtfoundation.org/Guidelines.html</a>



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Humanities or Social Sciences	Institute of Museum and Library Services (IMLS)	Laura Bush 21st Century Librarian Program	\$50,000 - \$500,000	Up to 3 years	May	September - Full application due	n/a	Library & Information Science	<a href="http://www.ims.gov/applicants/detail.aspx?GrantId=9">http://www.ims.gov/applicants/detail.aspx?GrantId=9</a>
Health, Disease, or Biomedical	Kinship Foundation	Searle Scholars Program	\$300,000	3 years	May	September 25 - Full application due	Varies - usually 1 or 2	Biomedical sciences and chemistry	<a href="http://www.searlescholars.net/go.php?id=1">http://www.searlescholars.net/go.php?id=1</a>
Health, Disease, or Biomedical	Pew Charitable Trusts	Pew Scholars Program in the Biomedical Sciences	\$240,000	4 years	May	Jul. 15 - Deadline for VPR Nommination; Aug. 1 - Applications Open; Nov. 16 - Applications Due	1	Biomedical Research; Health	<a href="http://www.pewtrusts.org/en/projects/pew-biomedical-scholars/program-details">http://www.pewtrusts.org/en/projects/pew-biomedical-scholars/program-details</a>
Humanities or Social Sciences	American Council of Learned Societies (ACLS)	ACLS Fellowships	\$35,000 - \$70,000	1 year	June	September - Applications Due	n/a	Humanities	<a href="http://www.acls.org/grants/Default.aspx?id=380">http://www.acls.org/grants/Default.aspx?id=380</a>
General Sciences	DoE	Early Career Research Program	\$750,000	5 years	June	September - Pre-application due; November - Full Application Due	n/a	Advanced Scientific Computing Research; Biological & Environmental Research; Basic Energy Sciences; Fusion Energy Sciences; High Energy Physics; Nuclear Physics (subcategories under all of these)	<a href="http://science.energy.gov/early-career/">http://science.energy.gov/early-career/</a>
Health, Disease, or Biomedical	NIH	NIH Director's New Innovator Award Program (DP2)	\$1,500,000	5 years	June	November 1 - Application due	n/a	Biomedical and behavioral research	Old announcement: <a href="http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-13-007.html">http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-13-007.html</a>
Specific Sciences	NSF	Computer and Information Science and Engineering (CISE) Research Initiation Initiative (CRII)	\$175,000	2 years	June	Fourth Wednesday in September	n/a	Computer science, information science, electrical or computing engineering department, or in a related field of computational science	<a href="http://www.nsf.gov/pubs/2014/nsf14562/nsf14562.htm">http://www.nsf.gov/pubs/2014/nsf14562/nsf14562.htm</a>
Specific Sciences	American Chemical Society (ACS)	Doctoral New Investigator (DNI) Grants	\$110,000	2 years	July	October 16 - application due	n/a	"Petroleum field"	<a href="http://www.acs.org/content/acs/en/funding-and-awards/grants/prf/programs/dni.html">http://www.acs.org/content/acs/en/funding-and-awards/grants/prf/programs/dni.html</a>
Specific Sciences	American Society for Mass Spectrometry	Research Awards	\$35,000	1 year	August	November 30 - application due	n/a	Mass Spectrometry	<a href="http://www.asms.org/about/asms-awards/research-awards">http://www.asms.org/about/asms-awards/research-awards</a>



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General Sciences	Blavatnik Awards for Young Scientists	Blavatnik National Awards for Young Scientists	\$250,000	3	August	November - Nominations Due; December - Letters of Support due	3 - 1 in each discipline category	Life Sciences, Physical Sciences & Engineering, and Chemistry	<a href="http://blavatnikawards.org/national-awards/nomination-guidelines/">http://blavatnikawards.org/national-awards/nomination-guidelines/</a>
Health, Disease, or Biomedical	Greenwall Foundation	Greenwall Faculty Scholars Program	50% salary support	3 Years	August	November	2	Bioethics	<a href="http://www.greenwall.org/faculty-scholars-program.php">http://www.greenwall.org/faculty-scholars-program.php</a>
Health, Disease, or Biomedical	American Federation for Aging Research	Research Grants for Junior Faculty	\$100,000	1-2 years	September	December - Letters of Intent Due; March - Full Applications Due	n/a	Problems in the biology of aging	<a href="http://www.afar.org/research/funding/afar-research-grants">http://www.afar.org/research/funding/afar-research-grants</a>
Neuroscience	McKnight Foundation	Scholar Award	\$225,000	3 years	September	@ January - this year = 1/4/2016	n/a	Neuroscience - Applicants must demonstrate their ability to solve significant problems in neuroscience, which may include the translation of basic research to clinical practice.	<a href="https://www.neuroscience.mcknight.org/newsroom/upcoming-deadlines/2016-scholar-announcement">https://www.neuroscience.mcknight.org/newsroom/upcoming-deadlines/2016-scholar-announcement</a>
General Sciences	ORAU	Ralph E. Powe Junior Faculty Enhancement Awards	\$10,000	1 year	September	UMD - @ November; this year = November 16, 2015; Agency deadline is 1/11/2016	2	Engineering and Applied Science; Life Sciences; Mathematics/Computer Sciences; Physical Sciences; Policy, Management, or Education	<a href="http://orau.org/university-partnerships/faculty-student-programs/powe/default.aspx">http://orau.org/university-partnerships/faculty-student-programs/powe/default.aspx</a>
Health, Disease, or Biomedical	Robert Wood Johnson Foundation	Junior Investigators	\$100,000	2 years	September	January - Pre-Applications Due; April - Full Proposals Due	n/a	Culture of Health	<a href="http://www.rwjf.org/en/library/funding-opportunities/2014/new-connections-junior-investigators.html">http://www.rwjf.org/en/library/funding-opportunities/2014/new-connections-junior-investigators.html</a>
Health, Disease, or Biomedical	Sidney Kimmel Foundation for Cancer Research	Kimmel Scholar Award	\$20,000	2 years	September	December - Full application due	n/a	Cancer	<a href="http://kimmel.org/Application_Process37.html">http://kimmel.org/Application_Process37.html</a>
General Sciences	DARPA	Young Faculty Award	\$500,000	2 years	October	February - Posted; April - Proposal Due	n/a	Physical Sciences; Engineering; Mathematics; Medicine; Biology; Information and Social Sciences	Varies - will be on Grants.gov
Health, Disease, or Biomedical	Leukemia Research Foundation	Hollis Brownstein Research Grant	\$100,000		October	February - Application due	n/a	leukemia, lymphoma, MDS, and multiple myeloma	<a href="http://www.allbloodcancers.org/application-information">http://www.allbloodcancers.org/application-information</a>





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Health, Disease, or Biomedical	NIH	Outstanding New Environmental Scientist (ONES) Award (R01)	\$250,000	5 years	October	February - Full proposal due	1 per College	Biomedical Research; Environmental Health	<a href="http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-15-003.html">http://grants.nih.gov/grants/guide/rfa-files/RFA-ES-15-003.html</a>
General Sciences	Human Frontier Science Program	Young Investigators' Grants	\$250,000 - \$450,000	3 years	November	March - LOI due	n/a	Biophysics, chemistry, computational biology, computer science, engineering, mathematics, nanoscience, and physics	<a href="http://www.hfsp.org/funding/research-grants/information-and-guidelines">http://www.hfsp.org/funding/research-grants/information-and-guidelines</a>
Specific Sciences	James S. McDonnell Foundation	Scholar Award in Complex Systems (Scholar-CS)	\$450,000	6 years	November	March - Applications due	n/a	Complex systems (not neuroscience)	<a href="https://www.jsmf.org/programs/cs/#">https://www.jsmf.org/programs/cs/#</a>
General Sciences	Office of Naval Research	Young Investigator Program	\$51,000	3 years	November	March - Full proposal deadline	n/a	Science; Engineering	<a href="http://www.onr.navy.mil/Contracts-Grants/Funding-Opportunities/Broad-Agency-Announcements.aspx">http://www.onr.navy.mil/Contracts-Grants/Funding-Opportunities/Broad-Agency-Announcements.aspx</a> (Might be in "Closed" section)
General Sciences	David & Lucile Packard Foundation	Packard Fellowships for Science and Engineering	\$875,000	5 years	December	March - VPR deadline; April - Applicant Deadline	2	Natural and Physical Sciences; Engineering	<a href="http://www.packard.org/what-we-fund/conservation-and-science/science/packard-fellowships-for-science-and-engineering/">http://www.packard.org/what-we-fund/conservation-and-science/science/packard-fellowships-for-science-and-engineering/</a>
Specific Sciences	Esther A. & Joseph Klingenstein Fund, Inc.	Klingenstein-Simons Fellowship Awards in the Neurosciences	\$225,000	3 years	December	March - Applications due	n/a	Neurosciences; cellular & molecular neuroscience; neural systems	<a href="http://www.klingfund.org/index.php">http://www.klingfund.org/index.php</a>
Health, Disease, or Biomedical	Health Effects Institute	Walter A. Rosenblith New Investigator Award	\$450,000	3 years	December	March - LOI due; April - Full application due	n/a	Health effects of pollution	<a href="http://www.healtheffects.org/funding.htm">http://www.healtheffects.org/funding.htm</a>
Humanities or Social Sciences	William T. Grant Foundation	William T. Grant Scholars	\$350,000	5 years	December	@ April ; Agency deadline is July 1	1 per College	Reduce inequality or understanding the use of research evidence	<a href="http://wtgrantfoundation.org/Grants#apply">http://wtgrantfoundation.org/Grants#apply</a>
Humanities or Social Sciences	Andrew W. Mellon Foundation	Multiple	Varies	Varies	X	Rolling application process	n/a	Higher education & scholarship in the humanities; arts and cultural heritage; scholarly communications; diversity; international higher education and strategic projects	<a href="https://mellon.org/programs/">https://mellon.org/programs/</a>
Health, Disease, or Biomedical	Brain & Behavior Research Foundation	NARSAD Young Investigator Grant	\$70,000	2 years	??	??	??	Neurobiology	<a href="https://bbfFoundation.org/yi">https://bbfFoundation.org/yi</a>



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Health, Disease, or Biomedical	Whitehall Foundation	Grant-in-Aid	\$30,000	1 year	X	January 15, April 15, October 1 - LOI Due; June 1, September 1, February 15 - Full Application Due	n/a	Neurobiology	<a href="http://www.whitehall.org/about/">http://www.whitehall.org/about/</a>