

A Guide to Early Career Funding Opportunities and Resources to Help You Secure Funding



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Letter of Introduction

Research, discovery, scholarship, and creative activity are part of the Arts, Sciences and Engineering mission at the University of Rochester. The breadth and depth of AS&E faculty represents extraordinary talent, diverse perspectives, collegial collaborations and a wealth of experience with the potential to enhance teaching and discovery.

To help you engage in our research enterprise, the AS&E Research Office provides a host of resources to catalyze the work of early career investigators. This handbook is one example of our commitment to your success. It lists a number of grant opportunities for early career faculty and identifies resources at UR that support excellence in research, scholarship, and creative activity.

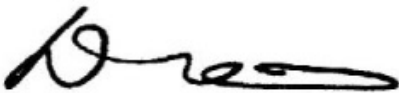
We also offer internal funding opportunities to help you increase your competitiveness for extramural funding (PumpPrimer II after your third-year review); the University Research Awards, the Discovery Awards to support undergraduate researchers, and Researcher Mobility Grants to promote international collaborations and networks).

The AS&E Research Team offers an outstanding research development office comprised of assistant deans for grants and contracts, a senior research development administrator and information analyst, and myself, and our executive assistant. Our team works on strategic initiatives for research centers of excellence, promoting collaboration cross the institution and often, program manages large, high-stakes, center-types of proposals. The assistant deans and research administrator can help ensure that your proposals are a good fit for the sponsor, that your narratives are clear, concise, convincing, and meet the guidelines of a specific program, help you develop your budgets, and in general, provide you with a wealth of experience and expertise on high-quality applications and useful resources. Our senior information analyst can provide comparative and competitive intelligence on various programs, sponsors, and limited submission opportunities. Our team provides training for AS&E faculty and staff on 'need to know' topics in the research domain. Finally, the University of Rochester provides crucial professional staff in the Office of Research and Projects Administration Office (ORPA) to review your applications for compliance and help you submit grant proposals for external funding.

The door to AS&E Research Office is always open – we want to hear your ideas, help you find funding to support your research, scholarly, and creative activity, and connect you to others whose research and scholarship may complement yours.

Let us know how we may help you succeed. Please visit our office in person in Lattimore Hall.

Sincerely,

A handwritten signature in black ink, appearing to read 'D Williams', with a stylized, flowing script.

David R. Williams

Resources to Search for External Funding Opportunities

Resources that keep you informed about federal and private funding opportunities

Free automated resources:

- Grants.gov Opportunities subscription
<https://www.grants.gov/web/grants/manage-subscriptions.html>
- National Institutes of Health (NIH) Guide Listserv <http://grants.nih.gov/grants/guide/listserv.htm>
- National Science Foundation (NSF) Update
<https://public.govdelivery.com/accounts/USNSF/subscriber/new?qsp=823>
- Philanthropy News Digest's Request for Proposal (RFP) Alert
http://philanthropynewsdigest.org/user/login/?pnd_profile
- Federal Register
<http://www.gpo.gov/fdsys/browse/collection.action?collectionCode=FR>

Searchable databases:

- UR Fellowships and Awards Database
<http://www.rochester.edu/fellowships/>
- Foundation Directory Online (UR subscription) <https://fconline.foundationcenter.org/search/member-index>
- SPIN (UR subscription)
<https://spin.infoedglobal.com/Home/Search>
- Philanthropy News Digest
<http://philanthropynewsdigest.org/>
- NIH Guide for Grants and Contracts
http://grants.nih.gov/grants/guide/search_results.htm?scope=rfa&scope=pa&year=active&text_curr=&Search.x=22&Search.y=2
- NSF Contracting Opportunities
<https://www.nsf.gov/about/contracting/>
- NSF Grant Opportunities
http://nsf.gov/funding/pgm_list.jsp?org=NSF&ord=date
- General Services Administration (US government website for people who make, receive, and manage federal awards).<https://beta.sam.gov/>
- FedConnect – The Government Acquisition & Grants Portal
<https://www.fedconnect.net/FedConnect/Default.htm>
- FedBizOpps - Federal Business Opportunities
<https://www.fbo.gov/index?s=main&mode=list&tab=list>
- Humanities and Social Sciences Online - H-Net Academic Announcements
<http://www.h-net.org/announce/group.cgi?type=Funding>

Manual reviews of sponsor websites also lead to funding opportunity announcements.

Other Sponsor Websites:

- U.S. Department of Education
<http://www2.ed.gov/fund/grant/apply/grantapps/index.html>
- U.S. Department of Agriculture (USDA)
<https://www.usda.gov/topics/farming/grants-and-loans>
- U.S. Department of Energy (DOE)
<http://energy.gov/public-services/funding-opportunities>

Internal Funding Opportunities

Internal funds are available to support research, scholarship, and creative activities through annual, university and school-wide competitions. For more information on deadlines and application processes, see the [Internal Funding Sources](#) of the AS&E Research website. Announcements are generally made via email from the SVP for Research, the deans and publicized in UR e-newsletters such as @rochester and UR Research Connections.

Faculty Early Career Awards – Arts and Humanities

Agency/Award	Deadline	Synopsis
American Council of Learned Societies Eligibility: Postdoctoral Scholars ACLS Fellowships	September	ACLS invites research applications from scholars in all disciplines of the humanities and related social sciences. Faculty appointments are not required. The ultimate goal of the project should be a major piece of scholarly work by the applicant, which can take the form of a monograph, articles, digital publication(s), critical edition, or other scholarly resources. The ACLS Fellowship program does not fund creative work (e.g., novels or films), textbooks, straightforward translation, or pedagogical projects. ACLS Fellowships are intended as salary replacement to help scholars devote six to twelve continuous months to full-time research and writing.
ACLS Burkhardt Residential Fellowships Eligibility: Within ~4 years of receipt of tenure for Recently Tenured Scholars	September	These fellowships support long-term, unusually ambitious projects in the humanities and related social sciences. The ultimate goal of the project should be a major piece of scholarly work by the applicant. ACLS does not fund creative work (e.g., novels or films), textbooks, straightforward translation, or pedagogical projects. Salary support of \$95,000 plus funds for research costs and related scholarly activities of up to \$7,500 and for relocation up to \$3,000
National Endowment for the Humanities Eligibility: Postdoctoral Scholars Summer Stipends	September	Summer stipends support individuals pursuing advanced research that is of value to scholars and/or general audiences of the humanities. \$6000 for one summer; Limited Submission (UR allowed 2 applicants per year).
Stanford Humanities Center Eligibility: Postdoctoral Scholars External Faculty Fellowships	October Access to the system opens in August.	All applicants must have a PhD and be at least three years beyond receipt of the degree at the start of the fellowship year. Junior fellowships are for scholars who will be at least three and no more than ten years beyond receipt of the PhD by the start of the fellowship year. Senior fellowships are for established scholars who are more than ten years beyond receipt of the PhD. Stipends are up to \$70,000 plus a housing and moving allowance of up to \$30,000.
The Vilcek Foundation Eligibility: Must be born outside U.S. and be less than 38 years old as of 12/31/19. The Vilcek Prizes for Creative Promise	June	This \$50,000 prize recognizes talented, foreign-born artists living in the United States who have demonstrated exceptional independence and creativity by their 38th birthday.. In addition, the applicants will also be judged on their ability to communicate the significance of their research to a scientifically literate audience.

Agency/Award	Deadline	Synopsis
National Endowment for the Humanities Fellowship Eligibility: Postdoctoral Scholars at all levels NEH Fellowship	April	Fellowships (\$30,000 (6 months) - 60,000 (12 months)) support individuals pursuing advanced research that is of value to humanities scholars, general audiences, or both. Recipients usually produce books, monographs, peer-reviewed articles, e-books, digital materials, translations with annotations or a critical apparatus, or critical editions resulting from previous research. Projects may be at any stage of development

Faculty Early Career Awards – Social and Education Sciences

Agency/Award	Deadline	Synopsis
Alzheimer's Association Eligibility: Investigators who are new to the Alzheimer's and related dementia field of research. alz.org/grants	March	The Alzheimer's Association Research Grant – New to the Field (AARG-NTF) and Alzheimer's Association Research Grant to Promote Diversity aim to fund investigators who are new to the Alzheimer's and related dementia field of research. Each AARG-NTF total award is limited to \$150,000 (direct and indirect costs) for up to three years (minimum 2 years).
The American Academy of Arts and Sciences Eligibility: Postdoctoral Scholars who must have received the Ph.D. degree no more than four (4) years before the application deadline date Visiting Scholars Program	October	The purpose of this interdisciplinary program is to stimulate and support scholarly work by promising scholars and practitioners in the early stages of their careers and to foster exchange between an emerging generation of scholars and Academy members with shared interests. Proposals in the humanities and social sciences relating to culture, American history, and public policy are requested. \$60,000 plus health insurance p/year for up to one year, with the option to renew.
American Political Science Association Eligibility: Postdoctoral Scholars who have completed a PhD in the last 15 years Congressional Fellowship Program	December	This fellowship gives early- to mid-career political scientists an opportunity to learn more about policymaking and the legislative process through working as full-time legislative aides in the House of Representatives and/or Senate from November to August. Fellows receive a \$52,500 stipend and small travel allowance.
American Speech-Language-Hearing Foundation Eligibility: within 5 years of PhD New Investigators Research Grant	April	Designed to help further new investigators' research activities by funding preliminary studies that could launch larger-scale research studies. Research, while not limited in topic, should be focused to match a one-year scope and should have clinical relevance to audiology and/or speech-language pathology. For researchers who have earned their PhD in the last 5 years. \$10,000.
Brain and Behavior Research Foundation Eligibility: Assistant Professors NARSAD Young Investigator Award Program	Feb-March	The goal of the YI program is to help researchers launch careers in neuroscience and psychiatry and gather pilot data to apply for larger federal and university grants. This award enables investigators to extend research fellowship training or begin careers as independent research faculty. Basic and/or clinical investigators are supported. Research must be relevant to serious psychiatric disorders such as schizophrenia, mood disorders, anxiety disorders, and others. Awards are for up to \$35,000 p/year for up to two years.

Agency/Award	Deadline	Synopsis
Foundation for Child Development Eligibility: within 7 years of PhD Young Scholars Program	Letters of Intent, June; Full Proposal, October	Fellowships provide from \$180K - \$225K for three years for basic and policy-relevant research about the early education, health, and well-being of immigrant children. Applicants must hold a Ph.D. or its equivalent in one of the behavioral and social sciences or in an allied professional field. (Indirects limited to 15%).
International Life Sciences Institute Eligibility: Within 5 years of first tenure track position North American Future Leader	See Website	This award supports new investigators in the areas of experimental nutrition, nutrition and toxicology, and nutrition and food science. Provides \$15,000 per year for two years.
March of Dimes Eligibility: Within 4-8 years of first assistant professor position Basil O'Connor Starter Scholar Research Awards	March	This award is designed to support young scientists just embarking on their independent research careers and is limited to those holding recent faculty appointments. This award is \$150,000 for two years.
McKnight Foundation Eligibility: Within 4 years of first assistant professor position Scholar Awards	Varies, usually January	Awards encourage neuroscientists in the early stages of their careers to focus on disorders of learning and memory. The Foundation especially seeks applicants working on problems that, if solved, would have immediate and significant impact on clinically relevant issues. Awards are \$75,000 per year for three years.
National Institutes of Health Eligibility: varies with program see website Career Development Awards (K Awards)	Varies	Individuals with a research doctorate should consider at least eight different awards, most of which support individuals who have accepted or are ready for a faculty position. The Mentored Research Scientist Career Development Award (K01) and the Career Transition Award (K22) provides support during the early years of a new faculty position.
The Spencer Foundation Eligibility: Within 5 years of PhD NAEd/Spencer Postdoctoral Fellowship Program	November	These \$70,000 fellowships support non-residential postdoctoral proposals that make significant scholarly contributions to the field of education. The program also develops the careers of its recipients through professional development activities involving National Academy of Education members.
William T. Grant Foundation Eligibility: Within 7 years of PhD Scholars Program	Annual July	The program promotes the development of promising early career researchers from diverse disciplines whose research furthers understanding of the development of adolescents and young adults and the conditions that enable these youth to reach their full potential. Awards are for \$350,000 over five years. Foundation Relations.

Faculty Early Career Awards – Life Sciences

Agency/Award	Deadline	Synopsis
Air Force Office of Scientific Research Eligibility: Within 7 years of PhD Young Investigator Program	Varies	The Air Force YIP supports scientists and engineers who have received Ph.D. or equivalent degrees within the last seven years and show exceptional ability and promise for conducting basic research. The objectives of this program are: to foster creative basic research in science and engineering; enhance early career development of outstanding young investigators; and increase opportunities for the young investigator to recognize the Air Force mission and related challenges in science and engineering. Most YIP awards are funded up to \$150,000 per year for three years, for a total of \$450,000.
Alfred P. Sloan Foundation Eligibility: Within 6 years of PhD Sloan Research Fellowships	September	Candidates must hold a tenure track (or equivalent) position at a college, university, or other degree-granting institution in the United States or Canada. Candidates must hold a tenure track (or equivalent) position at a college, university, or other degree-granting institution in the United States or Canada. Candidates must hold a Ph.D. or equivalent degree in chemistry, computer science, economics, mathematics, molecular biology, neuroscience, ocean sciences, physics, or a related field. Candidates must be tenure-track, though untenured, as of September 16, 2019. The fellowship amount is \$75,000.
Alzheimer's Association Eligibility: Investigators who are new to the Alzheimer's and related dementia field of research. ALZ Org Grants	March	The Alzheimer's Association Research Grant – New to the Field (AARG-NTF) and Alzheimer's Association Research Grant to Promote Diversity aim to fund investigators who are new to the Alzheimer's and related dementia field of research. Each AARG-NTF total award is limited to \$150,000 (direct and indirect costs) for up to three years (minimum 2 years).
American Cancer Society Eligibility: Postdoctoral Investigator or MD Research Scholar (Independent) Grants	April, October	This grant supports investigator-initiated projects across the cancer research continuum. Awards are for up to four years and for up to \$165,000 per year (direct costs), plus 20% allowable indirect costs. Independent investigators in the first six years of an independent research career or faculty appointment are eligible to apply.

Agency/Award	Deadline	Synopsis
American Diabetes Association Eligibility: Assistant Professors less than or 10 years from terminal degree who don't have previous/current NIH support Junior Faculty Career Development Grants	July	This award is designed to assist outstanding assistant professor level faculty investigators in conducting diabetes-related research. The award supports an individual's salary and research project to enable the investigator to advance his/her career as an independent investigator. Awards are up to \$138,000 per year for two to four years, including 10% allowable indirect costs. Additionally, applicants may request a \$10,000 for loan repayment also for principal loan for advanced degree program, MD, PhD etc.
American Heart Association Eligibility: no more than 5 years since starting first appointment as assistant professor Career Development Award	October	Supports highly promising healthcare and academic professionals, in the early years of one's first professional appointment, to explore innovative questions or pilot studies that will provide preliminary data and training necessary to assure the applicant's future success as a research scientist.
Army Research Office Eligibility: Within 5 years of PhD Young Investigator Program	Open	This program is designed to attract to Army research outstanding young university faculty members who have held their graduate degrees for fewer than five years to support their research and encourage their teaching and research careers. Grants are made in disciplines throughout the physical and life sciences and will not exceed \$50,000 per year for three years. See Research Area 11 in the Broad Agency Announcement W911NF-17-S-0002.
Beckman Foundation Eligibility: within the first three years of a tenure-track position Young Investigators Program (BYI)	August for LoI; January for full	This program supports young faculty in chemistry and the life sciences, particularly to foster the invention of methods, instruments, and materials that will open up new avenues of research in science. Typically, these are four-year projects in the range of \$600,000 over the term of the project. There is also a Postdoctoral Fellowship program and a Beckman Scholars program . Application is first via a Letter of Intent and then a full proposal per invitation.
American Foundation for Suicide Prevention Eligibility: must be first appointment as assistant professor Young Investigator Innovation Grants	November	Grants of up to \$90,000 over two years are awarded to investigators at or below the level of assistant professor, with an additional \$10,000 (\$5,000 per year) for an established suicide researcher who will mentor the Young Investigator.

Agency/Award	Deadline	Synopsis
Brain and Behavior Research Foundation Eligibility: Assistant Professors NARSAD Young Investigator Award Program	Annual	This award enables investigators to extend research fellowship training or begin careers as independent research faculty. Basic and/or clinical investigators are supported. Research must be relevant to serious psychiatric disorders such as schizophrenia, mood disorders, anxiety disorders, and others. The goal of the YI program is to help researchers launch careers in neuroscience and psychiatry and gather pilot data to apply for larger federal and university grants. Awards are for up to \$35,000 p/year for up to two years.
Camille and Henry Dreyfus Foundation, Inc. Eligibility: within the first six years of a tenure-track position Camille Dreyfus Teacher-Scholar Award	February	This award supports the research and teaching careers of talented young faculty in the chemical sciences. Based on institutional nominations (Limited Submission), the program provides discretionary funding to faculty at an early stage in their careers. The award provides an unrestricted research grant of \$100,000. See the award website for criteria for selection.
The David and Lucile Packard Foundation Eligibility: within the first three years of first tenure-track position Fellowships for Science and Engineering	Annual, typically during spring semester	The program invites up to two nominations from selected institutions and supports the innovative research efforts of young faculty members. Disciplines that are considered include physics, chemistry, mathematics, biology, astronomy, computer science, earth science, ocean science, and all branches of engineering. Awards provide \$875,000 over five years.
Department of Energy Eligibility: must be an untenured, tenure-track assistant or associate professor Early Career Research Program	Pre-applications due: February; Full proposals due: April	US Department of Energy supports the development of individual research programs of outstanding scientists early in their careers and stimulates research careers in the disciplines supported by the DOE Office of Science. Opportunities exist in Advanced Scientific Computing Research, Biological and Environmental Research, Basic Energy Sciences, Fusion Energy Sciences, High Energy Physics, and Nuclear Physics (max. \$750,000 over five years).
Esther A. and Joseph Klingenstein Fund, Inc. Eligibility: within four years of first tenure-track position Klingenstein Fellowship Awards in the Neurosciences	February	This award supports a young investigator, within four years of receiving their tenure-track academic rank, engaged in basic or clinical research that may lead to a better understanding of neurological and psychiatric disorders. The award of \$225,000 is payable over a three-year period beginning July 1.

Agency/Award	Deadline	Synopsis
Health Effects Institute Eligibility: Assistant Professor or equivalent level with 2-7 yrs of research experience. Walter A. Rosenblith New Investigator Award	Pre-application due April; Full proposals due in September	The purpose of this award is to bring new, creative investigators into active research on the health effects of air pollution. It provides three years of funding for a small project relevant to the Institute's research interests. The maximum budget allowed is \$500,000 over 3 years.
Human Frontier Science Program Eligibility: within five years of independent research position Young Investigators' Research Grants	March LOI, Full Proposal upon invitation due September	These grants support collaborative research in the life sciences, bringing biologists together with scientists from other disciplines such as chemistry, physics, mathematics, computer science, and engineering. Awarded to teams of researchers from different countries, all of whom are within the first five years of obtaining an independent laboratory. Teams receive up to \$450,000 per year.
International Life Sciences Institute Eligibility: within five years of first tenure-track position North America Future Leader Award	See website	This award provides support to new investigators in the areas of experimental nutrition, nutrition and toxicology, and nutrition and food science and provides \$15,000 per year for two years
March of Dimes Eligibility: Within 4-8 years of first assistant professor position Basil O'Connor Starter Scholar Research Awards	March	This award is designed to support young scientists just embarking on their independent research careers and is limited to those holding recent faculty appointments. These grants may not exceed \$75,000 per year and are awarded for two years.
McKnight Foundation Eligibility: Within 4 years of first assistant professor position Scholar Awards	Varies, usually January	Awards encourage neuroscientists in the early stages of their careers to focus on disorders of learning and memory. The Foundation especially seeks applicants working on problems that, if solved, would have immediate and significant impact on clinically relevant issues. Awards are \$75,000 per year for three years.

Agency/Award	Deadline	Synopsis
National Institutes of Health Eligibility: varies with program see website Career Development Awards (K Awards)	Varies	Individuals with a research doctorate should consider at least eight different awards, most of which support individuals who have accepted or are ready for a faculty position. The Mentored Research Scientist Career Development Award (K01) and the Career Transition Award (K22) provides support during the early years of a new faculty position.
National Institutes of Health Eligibility: NIH Early Career Investigator (ESI) - within 10 years of terminal degree Director's New Innovator Award Program (DP2)	August	Specifically to support unusually creative new investigators with highly innovative, high-risk research ideas at an early stage of their career when they may lack the preliminary data required for an R01 grant. The emphasis is on innovation and creativity; preliminary data are not required, but may be included. \$1.5 million in direct costs plus F&A costs are provided for the 5 year award.
National Institutes of Health Eligibility: NIH Early Career Investigator (ESI) - within 10 years of terminal degree Next Generation Researchers Early Stage Investigators & Early Established Investigators	Varies	Entry of new investigators into the ranks of independent, NIH-funded researchers is essential to the health of this country's biomedical research enterprise. This serves to provide opportunities for earlier research independence while enhancing workforce diversity.
National Science Foundation Eligibility: must be less than 40 years old OR not more than 10 years beyond receipt of the Ph.D. degree, by December 31st of the year in which they are nominated, U.S. citizenship Alan T. Waterman Award	October Call for Nominations opens August	The award is bestowed upon early career scientists and engineers in any field of science or engineering supported by the National Science Foundation. The award provides a grant of \$1,000,000 over a 5 year period for scientific research.
National Science Foundation Eligibility: must be pre-tenure; allowed to submit 3 times Faculty Early Career Development (CAREER) Program	July	This program supports the early career development activities of teacher-scholars who most effectively integrate research and education within the context of the mission of their organization. The minimum CAREER award, including indirect costs, is \$400,000 over a five-year duration.

Agency/Award	Deadline	Synopsis
Office of Naval Research Eligibility: within five years of first tenure-track position Young Investigator Program	See Website	The Young Investigator Program makes awards of up to \$500,000 for 24-months with an option for up to \$250,000 for an additional 12-months to attract outstanding new faculty members at institutions of higher education to support their research and encourage their teaching and research careers. See the ONR website for supported research areas.
Pew Charitable Trust Eligibility: nominees must hold full-time appointments at the rank of assistant professor. Pew Scholars Program in the Biomedical Sciences	June for internal nomination; October full proposal	The program invites one nomination from selected institutions. The program supports basic and clinical research relevant to the advancement of human health, carried out by investigators with full-time appointments at the rank of assistant professor. Awards provide \$75,000 p/ year for four years. (Limited Submission).
Pharmaceutical Research and Manufacturers of America Foundation Eligibility: beginning independent research careers - tenure track Research Starter Grants	Varies	The purpose of these grants is to offer financial support to individuals beginning their independent research careers at the faculty level. The program provides a research grant of \$100,000 per year one year to advance science in pharmacology, toxicology, informatics, pharmaceuticals, and health outcomes.
Rockland Immunochemicals Eligibility: Within 5 years of PhD Joy Cappel Young Investigator Award	November	This award is intended to foster research conducted by a promising post-doctoral fellow, graduate student or young investigator performing research in the areas of oncology, nuclear signaling, developmental biology, epigenetics, immunology, microbiology, neuroscience, signal transduction or stem cell technology.
Susan G. Komen for the Cure Eligibility: faculty position for more than five years Challenge Grants - Career Catalyst Research	Varies	These grants provide opportunities for early career scientists to achieve research independence with an independent award of up to \$450,000 over three years. Investigators lead a research project addressing an important question in breast cancer research and complete a self-defined career development plan with support from a mentor committee.

Agency/Award	Deadline	Synopsis
U.S. Department of Agriculture Eligibility: Postdoctoral Scholar/Investigator Agriculture and Food Research Initiative (AFRI) Agriculture and Food Research Initiative (AFRI)	Varies by program area	Eligible investigators or co-investigators include those who are beginning their research careers, do not have an extensive research publication record, and have fewer than five years postgraduate, career-track research experience. Funding is in the areas of natural resources and the environment; nutrition, food safety, and health; animals; pest biology and management; plants; markets, trade, and rural development; enhancing the value and use of agricultural and forest products; and agricultural systems research.
The Vilcek Foundation Eligibility: Must be born outside U.S. and be less than 38 years old by application. The Vilcek Prizes for Creative Promise	June	This \$50,000 prize recognizes talented, foreign-born scientists living in the United States who have demonstrated significant creativity and originality in the early stages of their careers.
Whitehall Foundation Eligibility: Assistant Professor or Senior Scientist - for Projects not easily fundable through federal sources Grants-in-Aid	Letters-of-intent: January 15, April 15, October 15, October 1 Proposals: June 1, September 1, February 15	This grant funds researchers at the assistant professor level in the life sciences for basic research in neurobiology. Awarded for a one year period, not in excess of \$30,000. Also a research grants program.

Faculty Early Career Awards – Physical Sciences and Engineering

Agency/Award	Deadline	Synopsis
Air Force Office of Scientific Research Eligibility: Within 7 years of PhD Young Investigator Program	June 1	These awards foster creative basic research in science and engineering, enhance early career development of outstanding young investigators, and increase opportunities to recognize the Air Force's mission and challenges in science and engineering. At minimum, Each award will be funded at the \$150,000 level for three years.
Alfred P. Sloan Foundation Eligibility: Tenure-track, but untenured, appointment must carry a teaching obligation Sloan Research Fellowships	Nomination Open: July Application Deadline: September	Candidates must hold a tenure track, though untenured (or equivalent) position at a US or Canadian institution of higher learning. Candidates must hold a Ph.D. (or equivalent) in chemistry, molecular biology, computer science, economics, mathematics, neuroscience, ocean science, physics, or a related field. Candidate's faculty position must carry a regular teaching obligation. Funded at \$75,000 over two years.
American Chemical Society Eligibility: Within first three years of first appointment at the level of Assistant Professor or the equivalent. Petroleum Research Fund Doctoral New Investigator Grants	September 23 rd – October 18 th , 2019	The DNI grants program aims to promote the careers of young faculty (within first 3 years of appointment) by supporting research of high scientific caliber and to enhance the career opportunities of their undergraduate/graduate students and postdoctoral associates through the research experience. The DNI grants program is seeking investigator-initiated, original research across the spectrum of our mission. Original research is defined as being different from that performed previously by the PI as part of their graduate or postdoctoral studies. Awards are for \$110,000 over two years.
American Mathematical Society Eligibility: between three and 12 years post PhD Centennial Fellowships	Application available September, December nomination deadline	One-year fellowships are awarded for excellence in mathematical research for those who do not have other major funding. Stipends are approximately \$93,000, with an additional expense allowance of about \$9,300. Recipients shall have held the doctoral degree for at least three years and not more than twelve years at the inception of the award.
American Society for Mass Spectrometry Eligibility: Within first four years of first tenure-track position; must be ASMS member Research Awards	November	Academic scientists within four years of joining tenure-track faculty are eligible for awards of \$35,000 for research in mass spectrometry.

Agency/Award	Deadline	Synopsis
<p>Army Research Office Eligibility: Within 5 years of PhD Young Investigator Program</p>	<p>Open</p>	<p>This program is designed to attract to Army research outstanding young university faculty members who have held their graduate degrees for fewer than five years to support their research and encourage their teaching and research careers. Grants are made in disciplines throughout the physical and life sciences and will not exceed \$120,000 per year for three years. See Research Area 11 in the Broad Agency Announcement W911NF-17-S-0002.</p>
<p>Camille and Henry Dreyfus Foundation, Inc. Eligibility: within the first six years of a tenure-track position Camille Dreyfus Teacher-Scholar Award</p>	<p>Early February</p>	<p>This award supports the research and teaching careers of talented young faculty in the <i>chemical sciences</i>. Based on institutional nominations, the program provides discretionary funding to faculty at an early stage in their careers. The award provides an unrestricted research grant of \$100,000. See the award website for criteria for selection.</p>
<p>Congressionally Directed Medical Research Programs Eligibility: refer to funding announcement Program Funding Opportunities</p>	<p>Varies by program</p>	<p>Funding programs change annually. Prior years have included study on: autism spectrum disorder research program, breast cancer research program, defense medical research and development program, Gulf War veterans' illnesses research program, neurofibromatosis research program, ovarian cancer research program, peer-reviewed medical research program, psychological health and traumatic brain injury research program, prostate cancer research program, and tuberous sclerosis complex research program. Some of these areas have included New Investigator Awards. See How to Apply</p>
<p>The David and Lucile Packard Foundation Eligibility: within the first three years of first tenure-track position Fellowships for Science and Engineering</p>	<p>Annual, typically during spring ~April</p>	<p>This program invites up to two nominations from selected institutions and supports the innovative research efforts of young faculty members in disciplines which include: physics, chemistry, mathematics, biology, astronomy, computer science, earth science, ocean science, and all branches of engineering. Awards provide \$875,000 over five years. (UR Limited Submission Opportunity). Foundation Relations.</p>
<p>Defense Advanced Research Projects Agency Eligibility: any current tenure-track Assistant or Associate Professors and to be tenured Assistant or Associate Professors within three (3) years of their tenure appointment at a U.S. institution of higher education or equivalent. Young Faculty Award</p>	<p>Varies</p>	<p>The objective of the DARPA Young Faculty Award (YFA) program is to identify and engage rising research stars in junior faculty positions at U.S. academic institutions and introduce them to Department of Defense needs as well as DARPA's program development process. Each award will include a 24-month base period (a maximum of \$500,000) and a 12-month option period (a maximum of \$500,000). See Research Announcement: DARPA-RA-18-02.</p>

Agency/Award	Deadline	Synopsis
Department of Energy Eligibility: must be tenure-track than 10 years of terminal degree Early Career Research Program	Pre-applications due: January; Full proposals due: April	This program supports the development of individual research programs of outstanding scientists early in their careers and stimulates research careers in the disciplines supported by the DOE Office of Science. Opportunities exist in Advanced Scientific Computing Research, Biological and Environmental Research, Basic Energy Sciences, Fusion Energy Sciences, High Energy Physics, and Nuclear Physics.
Google Eligibility: Postdoctoral investigator Faculty Research Awards	Late Summer	Google's goal is to identify and strengthen long-term collaborative relationships with faculty working on problems that will impact how future generations use technology. Google Faculty Research Awards are structured as seed funding (up to \$150,000 USD) to support one graduate student for one year and are awarded as an unrestricted gift.
Human Frontier Science Program Eligibility: within five years of independent research position Young Investigators' Research Grants	March LOI, Full Proposal upon invitation due September	This program supports collaborative research in the life sciences involving biologists together with scientists from other disciplines such as chemistry, physics, mathematics, computer science, and engineering. Grants are awarded to teams of researchers from different countries, all of whom are within the first five years of obtaining an independent laboratory. Teams receive up to \$450,000 per year.
NASA Nancy Grace Roman Technology Eligibility: must be within 8 years of terminal degree at time of application Fellowships for Early Career Researchers	See Website	The goals of the RTF program in Astrophysics are to provide early-career researchers the opportunity to develop the skills necessary to lead astrophysics flight instrument development projects, including suborbital investigations, in preparation to become PIs of future astrophysics missions; to develop innovative technologies for space astrophysics that have the potential to enable major scientific breakthroughs; and to foster new talent by putting early career instrument builders on a trajectory towards long-term positions. (awards up to \$300,000)
NASA National Aeronautics and Space Administration Eligibility: varies-check individual solicitations Early Career Program(s)	Varies; applications are solicited every two years	This program is designed to encourage the integration of Earth system research and education/outreach by scientists and engineers at the early stage of their professional careers. The program encourages scientists and engineers at academic and/or research institutions to develop a broader sense of responsibility for effectively contributing to the improvement of science education and public science literacy.

Agency/Award	Deadline	Synopsis
National Science Foundation Eligibility: must be less than 40 years old, citizenship requirements Alan T. Waterman Award	October, application opens in August	The award is bestowed upon early career scientists and engineers in any field of science or engineering supported by the National Science Foundation. The award provides a grant of \$1,000,000 over a 5 year period for scientific research.
National Science Foundation Eligibility: must be pre-tenure; allowed to submit 3 times Computer and Information Science and Engineering (CISE) Research Initiation Initiative	August	With the goal of encouraging research independence immediately upon obtaining one's first academic position after receipt of the PhD, the Directorate for Computer and Information Science and Engineering (CISE) will award grants to initiate the course of one's independent research. The maximum award is \$175,000 over a 24 month duration.
National Science Foundation Eligibility: must be pre-tenure; allowed to submit 3 times Faculty Early Career Development (CAREER) Program	July	This program supports the early career development activities of teacher-scholars who most effectively integrate research and education within the context of the mission of their organization. The minimum CAREER award, including indirect costs, is \$400,000 over a five-year duration.
NIH Eligibility: NIH Early Career Investigator (ESI) - within 10 years of terminal degree New and Early Stage Investigator Policies	Varies -NIH standard dates	In general, a Program Director/Principal Investigator (PD/PI) is considered a New Investigator if he/she has not previously competed successfully as PD/PI for a substantial NIH independent research award. Specifically, a PD/PI is identified as a New Investigator if he/she has not previously competed successfully for an NIH-supported research project <i>other than</i> the certain early stage or small research grants-see website. Special programs include: NIH Director's New Innovator Award and NIH Director's Early Independence Award .
Office of Naval Research Eligibility: Within 5 years of PhD, citizenship requirements Young Investigator Program	See Website	The Young Investigator Program makes awards of up to \$500,000 for 24-months with an option for up to \$250,000 for an additional 12-months. See the ONR website for supported research areas.
Research Corporation for Science Advancement Eligibility: within first two years of faculty appointment Cottrell Scholar Awards	Annual, pre-proposal due May; full proposal July per invitation only	The program's main goal is to promote and support the university scholar model. University scholars are faculty members who have both excellent research programs and excellent approaches to student learning at the undergraduate level (see website for applicant requirements). Awards provide \$100,000.

Agency/Award	Deadline	Synopsis
U.S. Department of Agriculture Eligibility: Postdoctoral Scholar/Investigator Agriculture and Food Research Initiative (AFRI)	Varies by program	Eligible investigators or co-investigators include those who are beginning their research careers, do not have an extensive research publication record, and have fewer than five years postgraduate career- track research experience. Funding is available in the areas of natural resources and the environment; nutrition, food safety, and health; animals; pest biology and management; plants; markets, trade, and rural development; enhancing the value and use of agricultural and forest products; and agricultural systems research.

Proposal Development Resources

Office for Proposal Development

The AS&E Research Office partners with faculty, staff, and administrators to develop competitive external grant proposals. The office enhances overall proposal quality by helping faculty and stakeholders with proposal planning and proposal preparation, ensuring applicants meet sponsor guidelines and by improving the content, organization, and visual appeal of proposal packages.

Contact [Debra Haring](#) 273-2289 in Arts & Sciences and [Cindy Gary](#) 273-5173 in the Hajim School of Engineering. Graduate Students and Postdocs applying for external fellowships should complete the [Fellowship Registry form](#). Contact [Janice Van Opdorp](#) at 273-2479 for more postdoc and graduate student funding application support. For appointments contact Tamara Evans at Email: tamara.evans@rochester.edu or telephone at (585) 275-6049.

ORPA-L Listserv

All UR faculty members are encouraged to sign up for the [ORPA-L](#) a list-serve used to announce important information and notices related to research administration.

Limited Submissions

The office of the SVP for Research regularly announced opportunities that are institutionally limited by the sponsor. Brief applications are first vetted internally by a review committee and selected researchers are endorsed to move forward to full submission. A full list of open opportunities is located on this ORPA [webpage](#).

Funding Searches

All faculty are highly encouraged to register for the proprietary software InfoEd Global GENIUS/SMARTS/SPIN to which the University of Rochester subscribes. Contact [Charlene Sinclair](#) to register as a UR researcher or staff member.

Grant Writing Seminars and Workshops

Various grant writing seminars, workshops, Lunch and Learn sessions and talks from Program Officers are sponsored by the Research Office. Two annual events are summarized below. Most events are publicized in *@rochester*, a daily e-news blast, *Research Connections* a weekly e-newsletter and on the Research [website](#).

Contact with Program Officers at Federal Agencies

Faculty are encouraged to engage with program officers in Washington and at professional meetings and conferences. A UR Guide to successful visits is appended below.

Guide for a Successful Visit to a Funding Agency

The importance of visiting federal funding agencies to learn about their priorities cannot be overstated. However, a visit will only be successful if you do the necessary groundwork beforehand and if you follow up on what you learn during the visit.

The goals of a visit are not only to learn about what the agency may offer you (possible funding opportunities), but also for the agency to learn what *you* may offer them (your expertise). Important outcomes resulting from an agency visit might include invitations to serve on a proposal review panel, committee, or task force. These are very valuable opportunities, and you should capitalize upon them when possible.

Pre-visit Preparation

1. Conduct background research to understand the agency's funding priorities.
 - Browse the agency's Web site for program announcements, "dear colleague letters," and special reports of symposia, workshops, and task forces.
 - Search the National Academy of Sciences, National Research Council, and White House Office of Science and Technology Policy Web sites for reports that foreshadow shifts in research priorities or that detail upcoming initiatives.
2. Prepare a summary of your research interests and strengths.
 - Compile or update a half- to one-page version of your descriptive CV or a biographical sketch in the format appropriate to the funding agency (e.g., NIH or NSF).
 - Provide a list of your peer-reviewed publications (maximum one page) relevant to the program you are targeting.
 - Include a list of your key federally funded projects.
3. Compose (at least one month in advance of your visit) a one- or two-page white paper on your proposed research project(s) that includes:
 - Title
 - Overall goal
 - Outline of the problem to be addressed
 - Gaps in the current research
 - Questions the proposed research will address
 - Potential impacts/outcomes
4. Select appropriate program officers, arrange for a

The Research Office can assist you as you prepare for meetings with funding agency representatives by helping you develop customized marketing materials and white papers that present your research in a dynamic, easy-to-understand format. Contact Cindy Gary 273-5173 cindy.gary@rochester.edu or Debra Haring 273-2289 debra.haring@rochester.edu.

visit, and share your white paper with them via e-mail at least one week in advance of the visit.

- Contact multiple agencies and multiple programs within agencies to determine the best fit and greatest interest for your work.

Meeting with Program Officers

1. Be prepared to provide a brief, concise description – no more than 15 minutes long – of your research interests and strengths. The program officer will already have your white paper in hand, so you do not need to reiterate all the information included in that document.
2. Give the program officers ample time and opportunity to comment on your research and to explain their programs. That is why you are there – to get their ideas. Listen carefully and take detailed notes.
3. Exchange business cards with the program officers you meet.
4. Review and summarize your notes as soon as possible following the meeting.
5. Prepare a summary report of the visit and submit a copy to the SVP for Research and Departmental Chair. The summary report should include the following:
 - The names of the agency or agencies you visited and the programs you contacted, and the names of the program officers with whom you interacted.
 - A brief overview of what you learned.
 - A summary of outcomes and task-actions for follow up: funding opportunities, review panel or committee service, etc.
6. Send a thank you note to each program officer/contact person with whom you interacted. Continue to communicate with interested program officers as appropriate.
7. Respond positively to any offers from program officers to serve on review panels, committees, or task forces. These are important outcomes of your visit!