

Grant Opportunity Alerts: Issue: ORD-GOA-2015-17

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Grant Opportunities Alerts:

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NSF and National Endowment for Humanities: Documenting Endangered Languages (DEL); Data, Infrastructure and Computational Methods

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Webinars: Reminder

Event: NSF CAREER Program Webinar

When: May 26, 2015, 1:00 PM to 3:00 PM

Brief Description: The NSF CAREER Coordinating Committee hosts a webinar to provide an overview of the NSF Faculty Early Career Development Program ([CAREER](#)) and to answer participants' questions about development and submission of CAREER proposals.

The webinar includes an overview presentation followed by a question-and-answer period.

Participants may submit questions about CAREER proposal development and submission in advance of and during the webinar by sending e-mail to: careerwebinarqs@nsf.gov

Please note that questions requiring determinations of eligibility for the CAREER program will not be addressed during the webinar. Questions about individual eligibility should be directed to the appropriate NSF Divisional contact shown on the web page

<http://www.nsf.gov/crssprgm/career/contacts.jsp>

How to Access the Webinar: Video and audio for the webinar are provided separately.

Video (no sound provided):

- Use a web browser to access
- <https://nsfevents.webex.com/nsfevents/onstage/g.php?d=749500813&t=a>
- Event number: 749 500 813
- Event password: Career2015

Audio:

- Call 1-888-942-9075 (USA toll free) or
- see list of international numbers below.
- Participant passcode: Career2015

For closed captioning, visit <http://www.fedrcc.us/> and input event confirmation number 2598904.

Event: ADVANCE IT and IT-Catalyst pre-proposal Technical Assistance Webinars

When: May 17, 2015, 1:00 PM to 2:30 PM and May 23, 2015, 3:00 PM to 4:30 PM

Brief Description:

The ADVANCE program office will offer two webinars one on the ADVANCE Institutional Transformation track and one on the IT-Catalyst track in the [ADVANCE solicitation 14-573](#). Please review the solicitation before the webinar. There will be time for questions and answers during the webinars.

How to Access: ADVANCE Institutional Transformation (IT)

- **June 17, 2015** 1pm to 2:30pm EST
- Register at:
<https://nsf.webex.com/nsf/j.php?RGID=r714de34766f098efb8795cefe79a02f4>

ADVANCE IT-Catalyst

- **June 23, 2015** 3:00pm to 4:30pm EST
- Register at:
<https://nsf.webex.com/nsf/j.php?RGID=rcbe4443fd0379281a2b56695ec898848>

Note institutional eligibility limitations for IT-Catalyst in the solicitation: Institutions that qualify for Department of Education Title III and Title V status, non-profit community colleges, designated minority serving institutions, (e.g. Tribal Colleges and Universities, Historically Black Colleges and Universities, Hispanic-Serving Institutions, Native Hawaiian Serving Institutions, and Alaska Native Serving Institutions, Predominantly Black Institutions, Non-Tribal, Native American-Serving Institutions).

The webinars will be recorded and posted on the [ADVANCE program website](#) about three weeks after these dates so you can review them if you are not available on these dates.

Grant Opportunities

National Science Foundation

Grant Program: NSF Earth Sciences Postdoctoral Fellowships (EAR-PF)

Agency: National Science Foundation NSF 15-568

RFP Website: <http://www.nsf.gov/pubs/2015/nsf15568/nsf15568.htm>

Brief Description: The Division of Earth Sciences (EAR) awards Postdoctoral Fellowships to recent recipients of doctoral degrees to carry out an integrated program of independent research and education. The research and education plans of each fellowship must address scientific questions within the scope of EAR disciplines. The program supports researchers for a period of up to two years with fellowships that can be taken to the institution of their choice (including facilities abroad). The program is intended to recognize beginning investigators of significant potential, and provide them with research experience, mentorship, and training that will establish them in leadership positions in the Earth Sciences community. Because the fellowships are offered only to postdoctoral scientists early in their career, doctoral advisors are encouraged to discuss the availability of EAR postdoctoral fellowships with their graduate

students early in their doctoral programs. Fellowships are awards to individuals, not institutions, and are administered by the Fellows.

A research plan whose focus falls within the scope of any EAR discipline is eligible for support. EAR focuses on improving our understanding of the Earth's structure, composition, evolution, and the interaction with the Earth's biosphere, atmosphere, and hydrosphere. The list of EAR programs can be found at <http://www.nsf.gov/div/index.jsp?div=EAR> and include EarthScope, Geobiology and Low Temperature Geochemistry, Geomorphology and Land Use Dynamics, Geophysics, Hydrologic Sciences, Petrology and Geochemistry, Sedimentary Geology and Paleobiology, and Tectonics. If you are uncertain of whether your research topic is within the purview of EAR disciplines, you are strongly encouraged to contact the cognizant program officer for this solicitation to discuss the appropriateness of the research. Proposals that address research topics outside the purview of EAR programs will be returned without review.

In addition, fellowship applicants are expected to include a coherent program of educational activities as part of their proposal. Examples of such activities include, but are not limited to, co-teaching one course at their host institution or at an academic institution with ties to their host institution, developing educational materials for formal or informal education venues, or engaging in a significant program of outreach or public education. As a rough guideline, fellows should plan on their educational activities taking no less than 10% and no more than 25% of their time. Applicants are encouraged to discuss the proposed educational activities with their proposed host institution prior to proposal submission to ensure that their educational plan is consistent with opportunities and plans at the institution.

Awards: Fellowships; 10 to be awarded.

Letter of Intent: Not required.

Deadlines: January 12, 2016

National Science Foundation and National Endowment for Humanities

Grant Program: Documenting Endangered Languages (DEL): Data, Infrastructure and Computational Methods

Agency: NSF 15-567

RFP Website: <http://www.nsf.gov/pubs/2015/nsf15567/nsf15567.htm>

Brief Description: This funding partnership between the National Science Foundation (NSF) and the National Endowment for the Humanities (NEH) supports projects to develop and advance knowledge concerning endangered human languages. Made urgent by the imminent death of roughly half of the approximately 7000 currently used languages, this effort aims to exploit advances in information technology to build computational infrastructure for endangered language research. The program supports projects that contribute to data management and archiving, and to the development of the next generation of researchers. Funding can support fieldwork and other activities relevant to the digital recording, documenting, and archiving of endangered languages, including the preparation of lexicons, grammars, text samples, and databases. Funding will be available in the form of one- to three-year senior research grants as well as fellowships from six to twelve months and doctoral dissertation research improvement grants for up to 24 months.

Principal Investigators (PIs) and Applicants for Fellowships (Applicants) may propose projects involving one or more of the following three emphasis areas:

1. Language Description

To conduct fieldwork to record in digital audio and video format one or more endangered languages; to carry out the early stages of language documentation including transcription and annotation; to carry out later stages of documentation including the preparation of lexicons, grammars, text samples, and databases; to conduct initial analysis of findings in the light of current linguistic theory.

2. Infrastructure

To digitize and otherwise preserve and provide wider access to such documentary materials, including previously collected materials and those concerned with languages which have recently lost all fluent speakers and are related to currently endangered languages; to create other infrastructures, including workshops and conferences to make the problem of endangered languages more widely understood and more effectively addressed.

3. Computational Methods

To further develop standards and databases to make this documentation of a certain language or languages widely available in consistent, archivable, interoperable, and Web-based formats; to develop computational tools for endangered languages, which present an additional challenge for statistical tools (taggers, grammar induction tools, parsers, etc.) since they do not have the large corpora for training and testing the models used to develop those tools; to develop new approaches to building computational tools for endangered languages, based on deeper knowledge of linguistics, language typology and families, which require collaboration between theoretical and field linguists and computational linguists (computer scientists).

Accomplishing the goals of the DEL program may require multidisciplinary research teams and comprehensive, interdisciplinary approaches across the sciences, engineering, education, and humanities, as appropriate. Interdisciplinary research combining the expertise of scientists expands the rewards of language documentation. In each emphasis area, DEL encourages collaboration across academic disciplines and /or communities. For example, a DEL project might pair linguists with computer scientists, geographers, anthropologists, educators and others as appropriate. Examples of community collaborations might include scholars working in well-defined partnerships with native speaker communities. DEL also encourages investigators to include in their projects innovative plans for training native speakers in descriptive linguistics and new technologies which support the documentation of endangered languages. The DEL program is also interested in contributing to a new generation of scholars through targeted supplements, which support both graduate and undergraduate research experience. DEL gives high priority to projects that involve actually recording in digital audio and video format endangered languages before they become extinct.

Awards: Standard Grant or Continuing Grant or Fellowship or Doctoral Dissertation Research Improvement Grant; Anticipated Funding Amount: \$4,500,000

Letter of Intent: Not required

Deadlines: September 15, 2015

NASA:

Grant Program: ROSES 2015: New (Early Career) Investigator Program in Earth Science

Agency: NASA NNH15ZDA001N-NIP

RFP Website:

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={97F503C2-03B6-D003-BA3A-7085F92C1ED7}&path=open>

Summary of Solicitations Under ROSES 2015:

<http://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=448109/solicitationId=%7B4477FA89-FA98-1CBC-3678-C7AB00B6E769%7D/viewSolicitationDocument=1/ROSES%202015%20SoS.pdf>

Brief Description: This ROSES NRA (NNH15ZDA001N) solicits basic and applied research in support of NASA's Science Mission Directorate (SMD). This NRA covers all aspects of basic and applied supporting research and technology in space and Earth sciences, including, but not limited to: theory, modeling, and analysis of SMD science data; aircraft, scientific balloon, sounding rocket, International Space Station, CubeSat and suborbital reusable launch vehicle investigations; development of experiment techniques suitable for future SMD space missions; development of concepts for future SMD space missions; development of advanced technologies relevant to SMD missions; development of techniques for and the laboratory analysis of both extraterrestrial samples returned by spacecraft, as well as terrestrial samples that support or otherwise help verify observations from SMD Earth system science missions; determination of atomic and composition parameters needed to analyze space data, as well as returned samples from the Earth or space; Earth surface observations and field campaigns that support SMD science missions; development of integrated Earth system models; development of systems for applying Earth science research data to societal needs; and development of applied information systems applicable to SMD objectives and data. Awards range from under \$100K per year for focused, limited efforts (e.g., data analysis) to more than \$1M per year for extensive activities (e.g., development of science experiment hardware). The funds available for awards in each program element offered in this ROSES NRA range from less than one to several million dollars, which allow selection from a few to as many as several dozen proposals depending on the program objectives and the submission of proposals of merit. Awards will be made as grants, cooperative agreements, contracts, and inter- or intra-agency transfers depending on the nature of the proposing organization and/or program requirements. The typical period of performance for an award is four years, although a few programs may specify shorter or longer (maximum of five years) periods. Organizations of every type, domestic and foreign, Government and private, for profit and not-for-profit, may submit proposals without restriction on the number or teaming arrangements. Note that it is NASA policy that all investigations involving non-U.S. organizations will be conducted on the basis of no exchange of funds. Electronic submission of proposals is required by the respective due dates for each program element and must be submitted by an authorized official of the proposing organization. Electronic proposals may be submitted via the NASA proposal data system NSPIRES or via Grants.gov. Every organization that intends to submit a proposal in response to this ROSES NRA must be registered with NSPIRES; organizations that intend to submit proposals via Grants.gov must be registered with Grants.gov, in addition to being registered with NSPIRES. Such registration must identify the authorized organizational representative(s) who will submit the electronic proposal. All principal investigators and other participants (e.g., co-investigators) must be registered in NSPIRES regardless of submission system. Potential proposers and proposing organizations are urged to access the system(s) well in advance of the proposal due date(s) of interest to familiarize themselves with its structure and enter the requested information. Details of the solicited programs are given in the Appendices of this ROSES NRA. Names, due dates, and links for the individual calls are given in Tables 2 and 3 of this ROSES NRA. Interested proposers should monitor <http://nspires.nasaprs.com/> or subscribe to the electronic notification system there for additional new programs or amendments to this ROSES NRA through February 2016, at which time release of a subsequent ROSES NRA is planned. A web archive (and RSS feed) for amendments, clarifications, and corrections to this ROSES NRA will be available at:

<http://science.nasa.gov/researchers/sara/grant-solicitations/roses-2015/> . Frequently asked questions about ROSES-2015 will be on the web at

<http://science.nasa.gov/researchers/sara/faqs/> . Further information about specific program elements may be obtained from the individual Program Officers listed in the Summary of Key Information for each program element in the Appendices of this ROSES NRA and at

<http://science.nasa.gov/researchers/sara/program-officers-list/> . Questions concerning general ROSES NRA policies and procedures may be directed to Max Bernstein, Lead for Research, Science Mission Directorate, at sara@nasa.gov .

Awards: Awards range from under \$100K per year for focused, limited efforts (e.g., data analysis) to more than \$1M per year for extensive activities (e.g., development of science experiment hardware).

Letter of Intent: Step-1 Proposal Due on June 11, 2015; For instructions to submit Step-1 proposal, see http://science.nasa.gov/media/medialibrary/2015/02/13/Step-1_instructions.pdf

Deadline: Full Proposal Deadline(s): Full Proposal to Follow

Grant Program: ROSES 2015: Solar System Workings

Agency: NASA NNH15ZDA001N-SSW

ROSES 2015: Modeling, Analysis, and Prediction [NNH15ZDA001N-MAP](#)

RFP Website:

<http://nspires.nasaprs.com/external/solicitations/summary.do?method=init&solId={B8991E29-00AA-48D8-0380-FBE428CF2EAE}&path=open>

Summary of Solicitations Under ROSES 2015:

<http://nspires.nasaprs.com/external/viewrepositorydocument/cmdocumentid=448109/solicitationId=%7B4477FA89-FA98-1CBC-3678-C7AB00B6E769%7D/viewSolicitationDocument=1/ROSES%202015%20SoS.pdf>

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agency transfers depending on the nature of the proposing organization and/or program requirements. The typical period of performance for an award is four years, although a few programs may specify shorter or longer (maximum of five years) periods. Organizations of every type, domestic and foreign, Government and private, for profit and not-for-profit, may submit proposals without restriction on the number or teaming arrangements. Note that it is NASA policy that all investigations involving non-U.S. organizations will be conducted on the basis of no exchange of funds. Electronic submission of proposals is required by the respective due dates for each program element and must be submitted by an authorized official of the proposing organization. Electronic proposals may be submitted via the NASA proposal data system NSPIRES or via Grants.gov. Every organization that intends to submit a proposal in response to this ROSES NRA must be registered with NSPIRES; organizations that intend to submit proposals via Grants.gov must be registered with Grants.gov, in addition to being registered with NSPIRES. Such registration must identify the authorized organizational representative(s) who will submit the electronic proposal. All principal investigators and other participants (e.g., co-investigators) must be registered in NSPIRES regardless of submission system. Potential proposers and proposing organizations are urged to access the system(s) well in advance of the proposal due date(s) of interest to familiarize themselves with its structure and enter the requested information. Details of the solicited programs are given in the Appendices of this ROSES NRA. Names, due dates, and links for the individual calls are given in Tables 2 and 3 of this ROSES NRA. Interested proposers should monitor <http://nspires.nasaprs.com/> or subscribe to the electronic notification system there for additional new programs or amendments to this ROSES NRA through February 2016, at which time release of a subsequent ROSES NRA is planned. A web archive (and RSS feed) for amendments, clarifications, and corrections to this ROSES NRA will be available at: <http://science.nasa.gov/researchers/sara/grant-solicitations/roses-2015/>. Frequently asked questions about ROSES-2015 will be on the web at <http://science.nasa.gov/researchers/sara/faqs/>. Further information about specific program elements may be obtained from the individual Program Officers listed in the Summary of Key Information for each program element in the Appendices of this ROSES NRA and at <http://science.nasa.gov/researchers/sara/program-officers-list/>. Questions concerning general ROSES NRA policies and procedures may be directed to Max Bernstein, Lead for Research, Science Mission Directorate, at sara@nasa.gov.

Awards: Awards range from under \$100K per year for focused, limited efforts (e.g., data analysis) to more than \$1M per year for extensive activities (e.g., development of science experiment hardware).

Letter of Intent: June 30, 2015

Deadline: Full Proposal Deadline(s): Full Proposal Due: August 31, 2015

National Institutes of Health

Grant Program: Clinical and Translational Science Award (CTSA) Network Recruitment Innovation Centers (RICs)(U24)

Agency: National Institutes of Health RFA-TR-15-004

RFP Website: <http://grants.nih.gov/grants/guide/rfa-files/RFA-TR-15-004.html>

Brief Description: Translating laboratory and clinical discoveries into interventions that improve human health is a complex process that typically takes years of effort. Multi-site clinical trials are a critical step in the translation pathway that allows preventive, diagnostic, or therapeutic interventions to benefit individual and public health. These trials may require substantial sample sizes to credibly test hypotheses. However, such trials often experience delays or even fail entirely due to challenges in recruiting participants. Such challenges are a multi-faceted problem with scientific, psychological, sociological, economic, political, and ethical dimensions. Addressing these challenges therefore requires a multi-faceted and “out of the box” approach, rather than small changes only to the status quo. Participant recruitment may benefit from innovation in the following areas:

- *Access to data* on the availability of potential participants rather than reliance on clinician estimates.
- *Data that provide sufficient detail* to take into account the specific entry criteria of a given protocol.
- *Recruitment strategies that employ innovative approaches* from other fields such as communications.
- *Sharing of recruitment strategies, materials, and associated outcomes* among participating research sites or between projects for ongoing innovation and improvement so that best practices can be developed and disseminated.
- *Engagement of relevant stakeholders* (e.g. potential participants and referring clinicians) early in the recruitment process.
- *Reducing burden on participants*, and making referrals easy for busy clinicians who may have many priorities competing for their time.
- Reframing proposed solutions to recruitment challenges as testable scientific hypotheses to allow for data-driven process selection.

This FOA is intended to develop and implement innovative informatics-driven approaches as well as the ethics and policy frameworks that will accelerate the design, conduct, and completion of multi-site clinical trials by establishing Clinical and Translational Science Award (CTSA) Recruitment Innovation Centers (RICs).

The goal of this initiative is to improve research participant recruitment in the planning and implementation phase of clinical trials.

In the *planning phase* of a clinical trial, the RICs will rapidly provide investigators and funders with estimates of the availability of candidate participants meeting the study’s entry criteria. Such estimates will be based on de-identified, aggregate data derived from the electronic health record (EHR) at individual sites and across the CTSA consortium.

In the *implementation phase* of a clinical trial, the RICs will support investigators through innovative strategies for enrolling research participants in a timely manner.

The Recruitment Innovation Centers that NCATS seeks to fund under this FOA will work together to harmonize approaches to research participant recruitment across the CTSA network. They will develop innovative solutions, demonstrate how these can be successfully applied to accelerate research participant recruitment, and over time establish best practices that can be generalized to a broad range of research studies. This initiative is aligned with NCATS’ recently enunciated goal of building CTSA network capacity. The RICs will work under joint governance with each other, with the Trial Innovation Centers (TICs) that NCATS is planning to establish to improve the implementation of multi-site studies, as well as with the CTSA hubs where liaison personnel will be introduced in parallel.

The main focus of this initiative is to improve recruitment into trials. However, there may be observational studies that could benefit from innovations in recruitment so that the term “multi-site trial” in this FOA is used in a broad sense for interventional and also observational

research studies. Single-site or small multi-site studies are not the main focus. However, it is anticipated that the new tools and approaches created will be generalizable to widely benefit trials, and ultimately patients.

Awards: NCATS intends to commit up to \$6 million in FY2016 to fund up to 2 awards. Future year amounts will depend upon annual appropriations.

NLM intends to commit up to \$250,000 in FY2016 to co-fund awards in response to this FOA

Letter of Intent: June 22, 2015

Deadline: July 22, 2015, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on this date. Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

Grant Program: NINDS Faculty Development Award to Promote Diversity in Neuroscience Research (K01)

Agency: National Institutes of Health PAR-15-257

RFP Website: <http://grants.nih.gov/grants/guide/pa-files/PAR-15-257.html>

Brief Description: The purpose of the Faculty Development Award to Promote Diversity in Neuroscience Research is to support an intensive, supervised career development and scientific mentoring experience for promising junior investigators (defined as = 3 years of a first time tenure track or equivalent faculty position) from backgrounds underrepresented in biomedical research. The proposed career development experience is expected to substantially contribute to the research capabilities of the applicant, provide protected time from teaching/other duties and provide resources to hone skills in grant writing and publication of high impact research. Presently, data from the National Science Foundation suggests that underrepresented racial and ethnic minorities, and individuals with disabilities are underrepresented in faculty-level biomedical research careers. For example, in surveys conducted by the Society for Neuroscience Committee on Neuroscience Departments and Programs, diverse faculty represent only 5% of the tenure-stream neuroscience faculty and 3% of non-tenure-stream faculty members ([2011 Survey Report Neuroscience Departments and Programs](#)). This is compared to a 14% predoctoral and 9% postdoctoral diverse trainee representation within the neuroscience field. As demonstrated in a 2011 NIH Individual Mentored Career Development Awards Program Evaluation, receipt of an individual mentored career development award had a measurable and significant impact on program participants, as seen in their publication records and subsequent applications for and receipt of NIH grants. Collectively, researchers who participated in a NIH K programs had a significantly higher R01 success rate than those with no prior career development support. It is envisioned that funding support from the Faculty Development Award to Promote Diversity in Neuroscience Research will increase the pool of well-trained researchers and health professionals who are competitively funded to conduct neuroscience research. The expectation is that through this sustained period of protected research time and career development exposure, awardees will be able to accelerate their independent research careers and become competitive for new research project grant (R01) funding. Applicants must justify the need for this award and provide a convincing case that the proposed period of support will substantially enhance their careers as independent investigators in neuroscience research. Mentoring is expected to be appropriate for this stage of career and should focus on enhancing tenure track (or equivalent) activities or metrics (i.e., helping the junior faculty member to navigate institutional expectations, scientific networks, and practices that are

relevant to productivity and advancement at the institution). The sponsoring Institution must also be able to demonstrate a strong commitment to the development of the candidate as a productive, independent investigator by providing protected research time and space needed to perform the proposed research.

Prior to preparing an application, individuals are strongly encouraged to contact the program official listed at the end of this announcement to discuss their training and career development needs. NINDS support for K01 program relies equally on scientific merit and programmatic considerations. Consequently, we strongly recommend potential applicants speak with program officials at NINDS before preparing an application. NINDS will not support projects, regardless of the results of merit review, if they do not fulfill current programmatic priorities at NINDS.

Awards: Award budgets are composed of salary and other program-related expenses, as described below.

NIH will contribute up to \$ 85,000 per year toward the salary of the career award recipient. The total salary requested must be based on a full-time staff appointment. The salary must be consistent both with the established salary structure at the institution and with salaries actually provided by the institution from its own funds to other staff members of equivalent qualifications, rank, and responsibilities in the department concerned.

Letter of Intent: Not Required

Deadline: [Standard dates](#) apply, by 5:00 PM local time of applicant organization. All types of non-AIDS applications allowed for this funding opportunity announcement are due on these dates.

Applicants are encouraged to apply early to allow adequate time to make any corrections to errors found in the application during the submission process by the due date.

DoD/ DARPA/ US Army Medical Research Acquisition Activity

Grant Program: DoD Neurofibromatosis New Investigator Award

Agency: US Army Medical Research Acquisition Activity W81XWH-15-NFRP-NIA

RFP Website: http://cdmrp.army.mil/funding/pa/15nfrpnia_pa.pdf

Brief Description: The intent of the NFRP New Investigator Award is to support the continued development of promising independent investigators and/or the transition of established investigators from other research fields into a career in the field of NF research. Prior experience in NF research is not required. However, Principal Investigators (PIs) with a limited background in NF research are strongly encouraged to have a collaborator who is experienced in the NF field. Research projects may focus on any phase of research, excluding clinical trials. Applications must include preliminary and/or published data that is relevant to NF and the proposed research project. Preclinical Research: All projects should adhere to a core set of standards for rigorous study design and reporting to maximize the reproducibility and translational potential of preclinical research.

The FY15 NFRP strongly encourages research applications that specifically address the critical needs of the NF community in one or more of the following Areas of Emphasis:

- Health services research for NF (see definition below)
- Heterogeneity of neurofibromas and other NF-related tumors
- Manifestations of NF post-adolescence:
- Mechanisms of pain

- Novel disease and treatment response markers for NF using genomics, epigenetics, systems biology, metabolomics, or other similar approaches
- Target identification and drug discovery for the treatment of NF
- Environmental, nutritional, and other modifiers of NF

Eligibility: An independent investigator *at or below* the level of Assistant Professor (or equivalent); *or* An established independent investigator in an area other than NF *at or above* the level of Assistant Professor seeking to transition to a career in NF thereby bringing their expertise to the field.

Must not have received more than \$300,000 in total direct costs for previous or concurrent NF research as a PI of one or more federally funded, non-mentored peer reviewed grants;

Awards: Total funds available in FY15: \$15 million

Letter of Intent: Not Required. Recommended to contact program officer

Pre-Application Deadline: 5:00 p.m. Eastern time (ET), June 18, 2015

Invitation to Submit an Application: July 2015

Application Submission Deadline: July 27, 2015

Grant Program: Neuromusculoskeletal Injuries Research Award

Agency: US Army Medical Research Acquisition Activity W81XWH-15-JPC-8/CRM RP-NMSIRA

RFP Website: http://cdmrp.army.mil/funding/pa/15crrpnmrsira_pa.pdf

Brief Description: The FY15/16 JPC-8/CRM RP Neuromusculoskeletal Injuries Research Award (NMSIRA) is intended to support preclinical research and clinical trials on the reintegration after injury, functional utility of assistive devices related to the human-device interface, secondary health effects following severe extremity injury, and optimizing rehabilitation and device prescription for patients with neuromusculoskeletal injury. To meet the intent of the award mechanism, applications **must** specifically address one or more of the FY15/16 JPC-8/CRM RP NMSIRA Focus Areas listed below. Applications proposing research outside of the Focus Areas listed below should **not** be submitted in response to this Program Announcement/Funding Opportunity.

- **Limited capability to assess and facilitate the optimal restoration of physical and psychosocial reintegration following neuromusculoskeletal injury**
 - ○ Lack of efficacious social support strategies
 - ○ Limited innovative technologies for interconnectivity
 - ○ Lack of demonstrable methods and technologies to assist and promote lifelong wellness and improved quality of life
 - ○ Limited validated methods that assess and facilitate effective return to desired real-world functional performance
- **Current assistive technology, including prosthetic and orthotic, characteristics that limit patient interaction, usability and durability**
 - ○ Lack of proprioceptive and other sensory inputs that inhibit functional use and safety
 - ○ Lack of intuitive user intent control for functional use of assistive devices
 - ○ Lack of device interoperability between available and future components that limits functional potential of multi-joint systems
 - ○ Lack of human-device interface to address limb health, comfort, and function
- **Limited ability to predict, identify, and reduce secondary health effects that develop after primary neuromusculoskeletal injury**

- ○ Inability to determine factors that predict development and successful treatment of osteoarthritis, low back pain, or other musculoskeletal conditions
- ○ Limited intervention strategies to diminish risk of falls
- ○ Limited intervention strategies to decrease risk of fractures
- ○ Limited strategies to prevent chronic comorbidities such as obesity, cardiovascular disease, and diabetes
- **Limited understanding of the optimal treatment strategies and sequence of progression throughout the rehabilitation process following neuromusculoskeletal injury, to include sprains and strains**
 - Inadequate evidence to determine the optimal dose, timing, frequency, duration, setting, and use of innovative rehabilitative techniques to minimize impairments, maximize function and performance, and/or achieve optimal quality of life
- **Inadequate measures for standardized assessment of relevant activity performance and participation**
 - ○ Lack of validated metrics that effectively predict function following neuromusculoskeletal injury
 - ○ Limited number of validated metrics that effectively quantify changes that result from rehabilitation or provision of novel technologies
 - ○ Lack of quantifiable and functional objective standards for discharge from clinical care

Awards: The anticipated total costs budgeted for the entire period of performance (up to 3 years) will not exceed **\$1.5 million (M)**.

Letter of Intent: Not Required. Recommended to contact program officer

Pre-Application Deadline: 5:00 p.m. Eastern time (ET), June 1 2015

Invitation to Submit an Application: June 29, 2015

Application Submission Deadline: August 17, 2015

Grant Program: DARPA Program on Biological Technologies

Agency: DARPA-BAA-15-35 Biological Technologies

RFP Website:

https://www.fbo.gov/index?s=opportunity&mode=form&id=805fad2938220bfbb1b60f70bc0580a&tab=core&_cvview=0

http://www.darpa.mil/Opportunities/Solicitations/BTO_Solicitations.aspx

Brief Description: The Defense Advanced Research Projects Agency (DARPA) is soliciting innovative research proposals of interest to the Biological Technologies Office (BTO).

Proposed research should investigate leading edge approaches that enable revolutionary advances in science, technologies, or systems at the intersection of biology with engineering and the physical and computer sciences. Specifically excluded is research that primarily results in evolutionary improvements to the existing state of the art. BTO seeks unconventional approaches that are outside the mainstream, challenge assumptions, and have the potential to radically change established practice, lead to extraordinary outcomes, and create entirely new fields.

The mission of BTO is to foster, demonstrate, and transition breakthrough fundamental research, discoveries, and applications that integrate biology, engineering, computer science, mathematics, and the physical sciences to expand the national security toolkit. BTO's investment portfolio goes far beyond life sciences applications in medicine to include areas of research such as human-machine interfaces, microbes as production platforms, and deep

exploration of the impact of evolving ecologies and environments on U.S. readiness and capabilities. BTO's programs operate across a wide range of scales, from individual cells to the warfighter to global ecosystems. BTO responds to the urgent and long-term needs of the Department of Defense (DoD) and addresses national security priorities. The overarching goal is to develop, demonstrate, and transition biological- based technologies as part of the toolkit available to DARPA stakeholders.

BTO is seeking novel approaches that will build technical communities that tap into sources of innovation both inside and outside traditional DoD performer communities. BTO encourages efforts that are creative and agile both in terms of the technologies proposed and in the structure of the approach. See the attached BAA Package for specific areas BTO is interested in receiving submissions for, and the specific abstract and proposal submission requirements.

Eligibility: An independent investigator *at or below* the level of Assistant Professor (or equivalent); *or* An established independent investigator in an area other than NF *at or above* the level of Assistant Professor seeking to transition to a career in NF thereby bringing their expertise to the field.

Must not have received more than \$300,000 in total direct costs for previous or concurrent NF research as a PI of one or more federally funded, non-mentored peer reviewed grants;

Awards: Multiple Awards

Letter of Intent: Abstract to be submitted to program officer email: DARPA-BAA-15-35@darpa.mil

Application Deadline:

Proposal Abstracts and Full Proposals will be submitted on a rolling basis until April 28, 2016, 4:00pm ET
