Early Career Funding

Funding opportunities for early stages of your research career

wmich.edu/research/discovery-acceleration-workshops20-21
• Early-career faculty of assistant professor ranking
• Sponsor funding opportunities & Resources
### Approximate Early Career Funding Schedule

<table>
<thead>
<tr>
<th>SEP</th>
<th>OCT</th>
<th>NOV</th>
<th>DEC</th>
<th>JAN</th>
<th>FEB</th>
<th>MAR</th>
<th>APR</th>
<th>MAY</th>
<th>JUN</th>
<th>JULY</th>
<th>AUG</th>
</tr>
</thead>
<tbody>
<tr>
<td>NIH K</td>
<td>NIH RO1</td>
<td>NIH K</td>
<td>NIH K</td>
<td>NIH RO1</td>
<td>NIH K</td>
<td>NIH K</td>
<td>NIH DP2</td>
<td>NIH RO1</td>
<td>USDEd</td>
<td>USDEd</td>
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<tr>
<td>NAEEd Fellow $70k</td>
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<tr>
<td>DOE $750k</td>
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<tr>
<td>AFOSR</td>
<td>ONR</td>
<td>CDMRP</td>
<td>DARPA</td>
<td>ARMY</td>
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</tr>
</tbody>
</table>
A Peek at the Process

Develop concept “White Paper”

Find Funding

Build project elements

Secure support and approvals

Submit

wmich.edu/research/funding/internal
Research Training Programs in Special Education (84.324B) **Early Career**

**Development and Mentoring**

U.S. Department of Education
Institute of Education Sciences

The *Early Career* Development and Mentoring (*Early Career*) topic supports grants that prepare researchers to conduct independent rigorous and relevant *early* intervention and special education research. The intent is to support researchers who are conducting research that leads to applications for federal funding. The focus of this topic is to support researchers who are conducting research that leads to applications for federal funding.

**Amount**

| To $500,000 |
|---|---|---|---|

Deadlines

Eligibility

Submission Info

---

Statistical and Research Methodology in Education (CFDA 84.305D)

**Early Career**

U.S. Department of Education
Institute of Education Sciences

IES, the National Center for Education Research (NCER) supports research focused on practices and policies that improve education outcomes and access to education opportunities for all learners from *early* childhood through adulthood, particularly those who experience a disability or are at risk for not achieving at grade level.

**Amount**

| To $500,000 |
|---|---|---|---|

Deadlines

Eligibility

Submission Info

---

**Note:** The information provided is a summary and may not be complete. For detailed eligibility and application requirements, please visit the official grant website.
Early Career Development and Mentoring
PI with PhD within 5 years; tenure-track

<table>
<thead>
<tr>
<th>Topic</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Training Programs in Special Education (84.324B)</td>
<td>To build the next generation of special education and early intervention researchers (general education, human development, political science, psychology, sociology, and statistics)</td>
</tr>
</tbody>
</table>

*Children/youth with disabilities |

| Statistical and Research Methodology in Education (84.305D) | To encourage a new generation of education researchers to address methodological issues and challenges and to develop methods and tools that will benefit the education sciences. |

USDeD: July-Aug
LOI: May-June
84.324B $500k, 4 year
84.305D $225k, 2 year

*Standards for Excellence in Education Research
# Part VI: Compliance and Responsiveness Checklist

Only compliant and responsive applications will be peer reviewed. Use this checklist to better ensure you have included all required components for compliance and that you have addressed all general and project narrative requirements for responsiveness.

See the IES Application Submission Guide (https://ies.ed.gov/funding/pdf/submissionguide.pdf) for an Application Checklist that describes the forms in the application package that must be completed and the PDF files that must be attached to the forms for a successful submission through Grants.gov.

## Compliance
- Have you included a Project Narrative?
- Have you included Appendix A: Dissemination Plan?
- If you are resubmitting an application, have you included Appendix B: Response to Reviewers?

## Responsiveness
- Have you met all the General Requirements for an application?
  - Have you identified a single topic for your application?
- Does your Project Narrative include the four required sections and the associated requirements for the selected topic? Did you describe the elements required for each section?

## Required Project Narrative Elements

<table>
<thead>
<tr>
<th>Early Career Methods Grant</th>
<th>Regular Methods Grant</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Significance</strong></td>
<td></td>
</tr>
<tr>
<td>You must describe</td>
<td>You must describe</td>
</tr>
<tr>
<td>the specific method(s) or tool(s) the project will produce;</td>
<td>the specific method(s) or tool(s) the project will produce;</td>
</tr>
<tr>
<td>how it will solve practical problems encountered by applied education researchers; and</td>
<td>how it will solve practical problems encountered by applied education researchers; and</td>
</tr>
<tr>
<td>how it will be easy to obtain and use by applied education researchers.</td>
<td>how it will be easy to obtain and use by applied education researchers.</td>
</tr>
<tr>
<td><strong>Research Plan</strong></td>
<td></td>
</tr>
<tr>
<td>You must describe your</td>
<td>You must describe your</td>
</tr>
<tr>
<td>research design and methods for</td>
<td>research design and methods for</td>
</tr>
<tr>
<td>developing the method(s) or tool(s),</td>
<td>developing the method(s) or tool(s),</td>
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<tr>
<td>determining that it works as intended, and</td>
<td>determining that it works as intended, and</td>
</tr>
<tr>
<td>determining that applied education researchers can use it;</td>
<td>determining that applied education researchers can use it;</td>
</tr>
<tr>
<td>data; and</td>
<td>data; and</td>
</tr>
<tr>
<td>data analysis plan.</td>
<td>data analysis plan.</td>
</tr>
<tr>
<td><strong>Personnel</strong></td>
<td></td>
</tr>
<tr>
<td>You must describe your</td>
<td>You must describe your</td>
</tr>
<tr>
<td>project team</td>
<td>project team</td>
</tr>
<tr>
<td>For Early Career applications, you must also provide the date of the PI’s doctorate (to be eligible, it must have been received on or after April 1, 2015), identify the PI’s dissertation chair, and identify the required research mentor or advisory panel who will collaborate on the proposed research. A mentor or advisor cannot have served as the PI’s dissertation chair.</td>
<td></td>
</tr>
<tr>
<td><strong>Resources</strong></td>
<td></td>
</tr>
<tr>
<td>You must describe your</td>
<td>You must describe your</td>
</tr>
<tr>
<td>resources to conduct the project</td>
<td>resources to conduct the project</td>
</tr>
</tbody>
</table>
NAEd/Spencer Postdoctoral Fellowship Program

To support early-career scholars working in critical areas of education research

Awarded directly to the individual

- Reviewed for applicant’s past research record, career trajectory, and the quality of the project described in the application
- Stipulation of no concurrent funding
- Need HSIRB approval

https://naeducation.org/naedspencer-postdoctoral-fellowship-guidelines/
NAEd/Spencer Postdoctoral Fellowship Program

- Application Form
- Abstract
- Project Description (10 pg)
- Research sample (20 pg)
- Career Statement
- CV
- References
NIJ awards grants and agreements for

- **Research, development and evaluation** (CFDA 16.560). NIJ funds physical and social science research, development and evaluation projects about criminal justice through competitive solicitations. The focus of the solicitations varies from year to year based on research priorities and available funding.

- **Forensic laboratory enhancement**. NIJ provides funding through formula and discretionary awards to reduce evidence backlogs and improve the quality and timeliness of forensic science and medical examiner services. Programs include:
  - DNA Backlog Reduction Program (CFDA 16.471)
  - Paul Coverdell Forensic Sciences Improvement Grant Program (16.472)

- **Research fellowships**. NIJ funds two fellowships through annual solicitations. The focus of the solicitations varies from year to year.

Typically NIJ’s solicitations are released December through May

- Subject to appropriations availability

[https://nij.ojp.gov/funding](https://nij.ojp.gov/funding)
Research and Evaluation on Policing Strategies for Civil Disturbances, Fiscal Year 2021

Opportunity ID: O-NIJ-2021-60005
Solicitation Status: Open
Fiscal Year: 2021
Closing Date: April 12, 2021
Posting Date: January 12, 2021
Solicitation Type: Competitive

Grants.gov Deadline: March 29, 2021 11:59 PM
Application JustGrants Deadline: April 12, 2021 11:59 PM

With this solicitation, NIJ seeks proposals for rigorous research and evaluation projects to better understand the factors that lead to violent disorder and criminal conduct at some protests and demonstrations but not others, and the tactics and strategies that police use to maintain public order. To that end, NIJ seeks applications for funding research projects addressing these two topics:

1. Police Strategies and Tactics to Respond to Violence and Maintain Order
2. The Role of Extremists in Fomenting Violence at Protests and Demonstrations

Applicants’ proposals must clearly indicate to which topic the proposal is being submitted.
Past funding opportunities

• NIJ FY17 New Investigator/Early Career Program in the Social and Behavioral Sciences and Science, Technology, Engineering and Mathematics (STEM)
  • Closed March 2017

• NIJ FY18 W.E.B Du Bois Program of Research on Crime
  • Closed April 2018

• NIJ FY19 Research and Evaluation on the Administration of Justice
  • Closed April 2019
Early Stage Investigator (ESI)

- PD/PI completed terminal research degree or end of post-graduate clinical training within past 10 years
  - Without NIH independent research award
- Eligibility calculated based on data in Personal Profile Education section
- Status benefit: R01-equivalent applications with meritorious scores are often prioritized for funding
NIH Director’s New Innovator Award (DP2)

- Part of the High-Risk, High-Reward Research program
  - Any topic relevant to NIH mission
- PD/PI must have ESI status
- No preliminary data required
- Min. of 3 person-months research effort

Highly innovative research with the potential for broad impact

RFA-RM-20-012

https://commonfund.nih.gov/highrisk
National Institutes of Health

Stephen I. Katz Early Stage Investigator Research Project

2021: R01 for change in research direction w/ no preliminary data

- New approach, methodology, technique, discipline, therapeutic target, and/or new paradigm
- Budgets not limited; >$500k direct costs per year needs approval

PAR-21-038 / PAR-21-039
K Award: Research Training & Career Development

https://researchtraining.nih.gov/programs/career-development

https://researchtraining.nih.gov/ic-training-representatives

ED  DOJ  NIH  NSF  DOE  DOD
NIH: K Awards

Research Training & Career Development

• **Mentored**: candidate works with an established investigator to transition to independent career
  - K01 Research Scientist (Biomedical)
  - K08 Clinical Scientist (Health Professionals - biomedical & behavioral research)
  - K23 Patient-Oriented Research (Health Professional doctorates)

  Provide support for a sustained period of “protected time” – 3 to 5 years

• **Independent**: candidate has reached independence as a researcher, but seeks to obtain new skills, mentor students or new investigators, or develop new curricula

https://researchtraining.nih.gov/programs/career-development
Mentored K Award General Requirements

• Mentor’s statement
• Environment & Institutional Commitment
• Min. 75% effort

Previous NIH PD/PI may be Ineligible

Research Strategy: Significance, Innovation, Approach
CAREER

- academic role models in research and education
- to lead advances in the mission of their department or organization

Find your fit

- [https://www.nsf.gov/about/research_areas.jsp](https://www.nsf.gov/about/research_areas.jsp)
- [https://academicresearchgrants.com/resources](https://academicresearchgrants.com/resources)
Eligibility: Investigator

• Hold doctoral degree in field supported by NSF by deadline date

• Be untenured and employed in a tenure-track (or tenure-track-equivalent) assistant professor position at an eligible institution as of October 1st following deadline

• Not previously awarded CAREER

• Have not had more than 2 CAREER proposals reviewed
National Science Foundation

Is the CAREER a good fit for me?

- Basic research
- NSF supported field
- Integrated research and education activities
- Innovative and ambitious (but also feasible)
- Part of your longer-term career plan
- Fits with the goals of your department and institution (chair letter)
- Track record showing commitment to both research and education
Required Components

- Project Summary (1 page)
- Project Description (15 pages)
- References Cited
- Departmental Letter (2 pages)
- Letters of Collaboration (optional) – follow format in solicitation
- Bio-sketch (2 pages)
- Current & Pending Support
- Budget and Budget Justification (5 pages)
- Facilities and Equipment
- Data Management Plan (2 pages)
- Collaborators and other Affiliations - must use NSF Template

Education Plan!
Integration of Research and Education

How will your research impact your education goals and how will your education activities feed back into your research?

Start Early!

Your Education Plan cannot be an afterthought
To deliver the scientific discoveries and major scientific tools to transform our understanding of nature and advance the energy, economic, and national security of the United States.

Office of Science is the Nation’s largest Federal sponsor of basic research in the physical sciences

Funding criteria includes potential for leadership in the scientific community
**Department of Energy**

**Early Career Research Program**

DE-FOA-0002173

<table>
<thead>
<tr>
<th>Area</th>
<th>Description</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Energy Sciences</td>
<td>Understanding, predicting, and ultimately controlling matter and energy flow at the electronic, atomic, and molecular levels</td>
<td>25</td>
</tr>
<tr>
<td>Advanced Scientific Computing Research</td>
<td>Delivering world leading computational and networking capabilities to extend the frontiers of science and technology</td>
<td>8</td>
</tr>
<tr>
<td>Biological and Environmental Research</td>
<td>Understanding complex biological, climatic, and environmental systems</td>
<td>2</td>
</tr>
<tr>
<td>Fusion Energy Sciences</td>
<td>Building the scientific foundations for a fusion energy source</td>
<td>7</td>
</tr>
<tr>
<td>High Energy Physics</td>
<td>Understanding how the universe works at its most fundamental level</td>
<td>6</td>
</tr>
<tr>
<td>Nuclear Physics</td>
<td>Discovering, exploring, and understanding all forms of nuclear matter</td>
<td>8</td>
</tr>
</tbody>
</table>
Early Career Research Program

• To support the development of individual research programs of outstanding scientists early in their careers and to stimulate research careers in the areas supported by SC.
  • Max 3 competitions
  • No letters of recommendation
Department of Defense

Applying to Mission Agencies

• Identify funding home at DOD
• Create network
  • Attend conferences/workshops, review publications
  • Talk to Program Officer/TPOC
  • Connect with intramural researchers
• Prepare quad charts, white/concept papers
• Watch for targeted BAA (Broad Agency Announcement)
Department of Defense opportunities

Young Investigator Program

- Similar in intent
- Eligibility:
  - Received Ph.D. recently
  - U.S. citizen, national, or permanent resident
  - Full-time permanent or tenure-track position
- Different deadlines, budget limits, and areas of research
Department of Defense opportunities

Young Investigator Program

- Enhance early career development of outstanding young investigators

<table>
<thead>
<tr>
<th>Program Description</th>
<th>Proposal Deadlines</th>
<th>Grant Amount</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOA-AFRL-AFOSR-YEAR-0003</td>
<td>Pre-proposal: April, Full proposal: June/August</td>
<td>$150,000 /year</td>
<td>up to 3 years</td>
</tr>
<tr>
<td>BAA W911NF-17-S-0002</td>
<td>Encourage teaching and fundamental research careers</td>
<td>$120,000 /year</td>
<td>Up to 3 years</td>
</tr>
<tr>
<td>BAA N00014-YR-S-F008</td>
<td>To attract IHE faculty members to the Dept. of Navy’s Science &amp; Technology</td>
<td>$120,000 /year</td>
<td>Up to 3 years; option for additional funding</td>
</tr>
</tbody>
</table>
Information, Cyber and Spectrum Superiority (Code 31);

Ocean Battlespace and Expeditionary Access (Code 32);

Mission Capable, Persistent and Survivable Naval Platforms (Code 33);

Warfighter Performance (Code 34);

and Aviation, Force Projection and Integrated Defense (Code 35)

1) Technical Merit – A creative research proposal, demonstrating the potential for making progress in an ONR research area;

2) Naval Research and Development Framework Priorities – Basic and Applied Research that address new knowledge to develop new technologies that ultimately become new capabilities delivered by the acquisition community (https://www.onr.navy.mil/our-research/naval-research-framework);

3) Curriculum Vitae – Past performance and experience of the Principal Investigator, demonstrated by the significance and impact of previous research, publications, professional activities, awards and other recognition, etc.;

4) Letter of Support (required) – A long-term commitment by the University or Non-profit to the applicant and the proposed research detailed in the letter(s) of support from appropriate official(s); and

5) Budget – Cost realism, affordability, and budgetary constraints.
DOD: Defense Advanced Research Projects Agency

Young Faculty Award, BAA DARPA-RA-YR-01

- To identify and engage rising stars in junior research positions, emphasizing those without prior DARPA funding, and expose them to DoD needs and DARPA’s program development process

- Proposer’s Day webcast

- Submit executive summary per TA

- Full proposal [1] Jan

- $500,000 for 24-month base period + 12 month option “Director’s Fellowship”
  - Include travel

DoD problem? Current state-of-the-art tech?
New insights? Credible research plan & timeline?
Critical, quantitative milestones?
DOD: Congressionally Directed Medical Research Program

- Funding recommendations based on portfolio compositions; awards obligated up-front w/out continuation
- Development of Research
- Researcher Development
DOD: Congressionally Directed Medical Research Program

Currently Funded Research Programs

- Alcohol and Substance Abuse Disorders
- Amyotrophic Lateral Sclerosis
- Autism
- Bone Marrow Failure
- Breast Cancer
- Chronic Pain Management
- Combat Readiness-Medical
- Duchenne Muscular Dystrophy
- Epilepsy
- Gulf War Illness
- Hearing Restoration
- Joint Warfighter Medical
- Kidney Cancer
- Lung Cancer
- Lupus
- Melanoma
- Military Burn
- Multiple Sclerosis
- Neurofibromatosis
- Orthotics and Prosthetics Outcomes
- Ovarian Cancer
- Parkinson's
- Peer Reviewed Alzheimer's
- Peer Reviewed Cancer
- Peer Reviewed Medical
- Peer Reviewed Orthopaedic
- Prostate Cancer
- Reconstructive Transplant Research
- Spinal Cord Injury
- Tick-Borne Disease
- Tuberous Sclerosis Complex
- Vision
CDMRP Early Career Tracks: New Investigator Award

Ex) FY19 Gulf War Illness Research Program (GWIRP) W81XWH-19-GWIRP-NIA

• To study effects of deployment to the 1990-1991 Persian Gulf War on U.S. Warfighters.
  • Phase: 1) Discovery Idea or 2) Research Advancement Qualification

• Pre-application

• Full proposal via Grants.gov

• $500,000 for direct costs, up to 3 years
To study all issues related to labor markets and public workforce policy.

Awarded to the individual

1200 word proposal + abstract + budget to webform

https://www.upjohn.org/about/news-events/upjohn-institute-accepting-proposals-2021-early-career-research-awards
To provide scientific evidence on which to ground education practice and policy and to share this information in formats that are useful and accessible to educators, parents, policymakers, researchers, and the public.
Common Guidelines for Education Research and Development

A Report from the Institute of Education Sciences, U.S. Department of Education and the National Science Foundation

August 2013

ON THE ART OF WRITING PROPOSALS

Some Candid Suggestions for Applicants to Social Science Research Council Competitions

Adam Popper
Department of Political Science
University of Chicago

and

Frank Salomon
Department of Anthropology
University of Wisconsin

Social Science Research Council
One Pierrepont Plaza, 15th Floor
Brooklyn, NY 11201
212.377.2700 | www.ssrc.org
Broader Impacts
http://coseenow.net/wizard/

Data Management Plan
https://dmptool.org/ and WMU Library
Biosketch

Create account and use SciENcv template from ncbi.nlm.nih.gov/myncbi or log in through eRA Commons

[Image of a new biosketch creation form]

youtube.com/watch?v=PRWy-3GXhtU
<table>
<thead>
<tr>
<th><strong>High Level Vision</strong></th>
<th><strong>Technical Approach and Risks</strong></th>
</tr>
</thead>
</table>
| [What’s the big idea, what problem are you solving, and who cares?] | [Present a concise, bulleted list of the technical approach. This may include an associated figure.]
|                       | Summarize the major technical risks and proposed risk mitigation strategies.] |

<table>
<thead>
<tr>
<th><strong>Project Impact and Potential Application</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>[State the impact of a successful project (be quantitative) and potential applications of relevance to the DoD if successful.]</td>
<td></td>
</tr>
</tbody>
</table>
Heilmeier Catechism – risks worth taking

- What are you trying to do? Articulate your objectives using absolutely no jargon.
- How is it done today, and what are the limits of current practice?
- What is new in your approach and why do you think it will be successful?
- Who cares? If you are successful, what difference will it make?
- What are the risks?
- How much will it cost?
- How long will it take?
- What are the mid-term and final “exams” to check for success?
Think about becoming a Reviewer

- Identify strong proposals
- Learn impact scoring
- Develop research-evaluation and critique-writing skills

https://public.csr.nih.gov/ForReviewers/BecomeReviewer/ECR
ORI Resources

• Slides from Previous Workshops
• Contact Info for WMU Awardees
• Funded Proposals to Share
• Resources for Education Plan
Thank You

Contact your Research Officer for proposal development!

Upcoming:
Applying to the Department of Defense Agencies
Feb. 22 noon-1pm