



Part 1: Deep Dive into Federal Funding: IES, NIH, and NSF



THE OHIO STATE
UNIVERSITY

COLLEGE OF
EDUCATION AND HUMAN ECOLOGY



Part 2: What are Your Proposal Development Needs?



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FY2016 RESEARCH

in the COLLEGE OF EDUCATION AND HUMAN ECOLOGY

EXPENDITURES

Research expenditures – the funds spent on personnel, supplies and services – reflect the research activity of a college.

\$30 MILLION

FY2016 research expenditures

OFFICE OF SPONSORED PROGRAMS (OSP) EXPENDITURES (DIRECT & INDIRECT COSTS):

HUMAN SCIENCES	\$5,678,769
TEACHING & LEARNING	\$3,453,931
EDUCATIONAL STUDIES	\$4,023,656
CENTERS/ADMIN	\$13,706,748

CONTRACTS, OARDC AND OSUE EXTENSION EXPENDITURES:

CONTRACTS	460,352
OARDC/OSUE	718,739

SUBMISSIONS AND AWARDS

PROPOSALS

175 grant proposals submitted

\$141,935,684 in funds requested



HUMAN SCIENCES
\$76,032,960



TEACHING & LEARNING
\$14,577,380



EDUCATIONAL STUDIES
\$10,791,961



CENTERS/EHE ADMIN
CETE: 23 | SFC/CCEC: 26
ORC: 8 | SPOT ON: 1
EDUCATOR PREP: 1
\$40,533,383

FUNDED

65 awards funded in 2016

\$20,710,296 anticipated over the life of the award

\$7,864,421



HUMAN SCIENCES

\$3,005,734



EDUCATIONAL STUDIES

\$4,139,178



TEACHING & LEARNING

\$5,700,963



CENTERS
CETE: 16 | SFC/CCEC: 9 |
ORC: 2

Research funding



Goals

- Find a federal program that is a good fit with the problem you want to solve
- Help us discover the wraparound services that you as an individual need to submit a high-quality proposal



Presenters

- [Shayne Piasta](#), Associate Professor, Teaching and Learning
- [Brian Focht](#), Associate Professor, Human Sciences
- [Kimberly Lightle](#), Director EHE Office of Research

Together, in the last 10 years, either PI or co-PI on \$30M in funding from IES, NIH, and NSF



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NATIONAL SCIENCE FOUNDATION

Mission

To promote the progress of science; to advance the national health, prosperity, and welfare; and to secure the national defense; and for other purposes. **NSF** envisions a nation that capitalizes on new concepts in science and engineering and provides global leadership in advancing research and education.

What Does NSF Fund?

- Basic and applied research for early stage researchers and beyond
- Graduate student fellowships, dissertation year support
- Conferences
- International collaborations
- Educational research on how people learn (and teach) in formal and informal environments and with technology, preK to gray
- Workforce development for scientists and teachers
- Economic progress of society

Biological Sciences (BIO)

- Biological Infrastructure (DBI)
- Environmental Biology (DEB)
- Emerging Frontiers (EF)
- Integrative Organismal Systems (IOS)
- Molecular and Cellular Biosciences (MCB)

Computer and Information Science and Engineering (CISE)

- Advanced Cyberinfrastructure (ACI)
- Computing and Communication Foundations (CCF)
- Computer and Network Systems (CNS)
- Information and Intelligent Systems (IIS)

Education and Human Resources (EHR)

- Graduate Education (DGE)
- Research on Learning in Formal and Informal Settings (DRL)
- Undergraduate Education (DUE)
- Human Resource Development (HRD)

Engineering (ENG)

- Chemical, Bioengineering, Environmental and Transport Systems (CBET)
- Civil, Mechanical and Manufacturing Innovation (CMMI)
- Electrical, Communications and Cyber Systems (ECCS)
- Engineering Education and Centers (EEC)
- Emerging Frontiers and Multidisciplinary Activities (EFMA)
- Industrial Innovation and Partnerships (IIP)

Environmental Research and Education (ERE)

Geosciences (GEO)

- Atmospheric and Geospace Sciences (AGS)
- Earth Sciences (EAR)
- Ocean Sciences (OCE)
- Polar Programs (PLR)

Integrative Activities (OIA)

International Science and Engineering (OISE)

Mathematical and Physical Sciences (MPS)

- Astronomical Sciences (AST)
- Chemistry (CHE)
- Materials Research (DMR)
- Mathematical Sciences (DMS)
- Physics (PHY)
- Office of Multidisciplinary Activities (OMA)

Social, Behavioral and Economic Sciences (SBE)

- Behavioral and Cognitive Sciences (BCS)
- National Center for Science and Engineering Statistics (NCSES)
- Social and Economic Sciences (SES)
- SBE Office of Multidisciplinary Activities (SMA)

National Science Foundation

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Keyword:*

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OTHER WAYS TO FIND FUNDING

[A-Z Index](#)

Index of words appearing in the titles of all funding opportunities

Special Programs

[For Undergraduate Students](#)
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Program Areas

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[Social, Behavioral & Economic Sciences](#)



Education Programs with Recurring Due Dates

- [STEM + Computing Partnerships](#) – March
- [IUSE](#) – January
- [AISL](#) – November
- [DR K-12](#) – December
- [ITEST](#) – August
- [Cyberlearning and Future Learning Technologies](#) – March, July, December
- [Noyce Teacher Scholarship Program](#) – September
- [PIRE](#) – TBD

Early-concept Grants for Exploratory Research (EAGER)

- Supports exploratory work in its early stages on untested, but potentially transformative, research ideas or approaches
- Work could be considered especially "high risk-high payoff" in the sense that it, involves radically different approaches, applies new expertise, or engages novel disciplinary or interdisciplinary perspectives.
- Work directly with a NSF program officer
- Usually around \$100K
- Any discipline

Review Process

1. Most proposals reviewed by 3 or 4 reviewers
2. Reviewers rate the proposals from Poor to Excellent based on Intellectual Merit and Broader Impact criteria
3. Proposals that have an average of Good ratings or below and DON'T have any Very Goods or Excellents can be “triaged” which means they don't have to be discussed – proposers will see the individual reviews but there will be no summary
4. Those proposals that are discussed will be ranked from Highly Competitive to Non-Competitive – proposers will have a panel summary and comments from the NSF Program Officer



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WRAPAROUND SERVICES – IDEAS?

Possibilities

- Intake meetings – find out individual needs (problem strategizing, individualized timeline, action items)
- Writing groups focused on first page of proposal, developing a concept paper
- Workshops
- Schedule pink, red, and green team reviews

Problem Strategizing

- What is the problem?
- Why it is a problem?
- What is a possible solution to the problem?
- How will the research be conducted?
(How will you measure success?)

Help with Writing the First Page of Any Proposal

1. Introductory Paragraph

- Opening sentence
- Current knowledge
- Gap or need
- Gap/need as important problem

2. What, Why, Who Paragraph

- Long-term goal
- Objective
- Rationale
- Why well prepared

3. Specifics Paragraph

- Specific aims/goals
- Objectives

4. Payoff Paragraph

- Expected outcomes
- Positive Impact

Developing a Concept Paper

A *Concept Paper* may address any or all of these topics depending on how far you have thought through your project. **The more information you can provide** a Program Officer, **the better the advice** you will receive in developing your application. Organize your thoughts for productive discussion with a program officer. This should be 1–3 pages in length.

- **Grant Purpose.** Briefly, relate the funding program, amount and duration of the grant, and why what you propose fits within the mission of the funder you have chosen.
- **Problem and Significance.** Explain why the literature/your research leads you to think this topic needs study. Mention what makes your project unique and innovative, especially in light of any similar projects identified in the literature.
- **Question.** Derived from the scientific literature, describe the theories and model(s) that will guide your hypotheses, and specify what hypotheses you will test.
- **Design and Analysis.** Describe the population (age range, gender, race, selective characteristics), interventions, controls, measures, etc., that will enable testing your hypotheses. Estimate the required sample and power (N , levels of analysis). Justify the statistical approach that will ensure a fair test of your hypotheses.
- **Team and Logistics.** Indicate how your career stage, expertise, and experience qualify you to lead a project of the size, scope, and technology proposed. Name key collaborators (co-investigators, consultants, and organizations) who will help the project succeed. Mention the organizations whose cooperation you will need to access subjects/data/equipment/field sites, and indicate any people or organizations who have agreed in writing to participate/support the project.

Sample Timeline

- January – Determine funding mechanism, Intake meeting
- February – Problem determined, research questions generated, and first page completed; meet with RMC for methodology consultation; Logic model created
- March – Pink Team Review
- April – Build team including evaluator and recruit schools
- May – Data Management Plan writing group, training and feedback
- June – go on vacation
- July – Red Team Review
- August – Green Team Review
- September – Proposal due

Contact Information

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