Grant Writing:
An Introduction

Effective Proposal Development

Office of Research
Office of Foundation Relations
University Libraries
Introduce the Office of Research and Office of Foundation Relations

Review basic grant terms and parts of a grant proposal

Know and understand the Solicitation Cycle

Access funding opportunity resources

Organize and plan for grant writing

Avoid common reasons for not being funded
Funding & Research Development

• Assistance with finding funding, locating collaborators, and leveraging Ohio State’s resources
• Coordination of the limited submission process, Ohio State’s internal nomination process

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Office of Foundation Relations

- Support all academic units, regional campuses and the Medical Center
- Serves as a central liaison to philanthropic foundations
  - Private Foundations: Non-operating and Operating
  - Public Charities Engaged in Grantmaking (Community Foundations, United Way)
- Assist faculty with prospect research to align purpose and priorities
- Specialize in relationship building (cultivation), proposal development (solicitation), and stewardship
- Find us at https://foundationrelations.osu.edu/
## Ten-Year Research Funding Profile (2008-2017)

<table>
<thead>
<tr>
<th>Year</th>
<th>Funding</th>
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<tr>
<td>2008</td>
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<td>2016</td>
<td>$847</td>
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<td>2017</td>
<td>$664</td>
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Grant-Making Organizations

**Government**
- Federal – NIH, NSF, DOD, NEA
- State – Jobs Ohio, Ohio Dept of Ed
- County, Municipalities

**Private**
- Non-Profit – Sloan Foundation, Columbus Foundation (mission-driven, family, community)
- For Profit – AEP, Honda, General Electric
Funding and Research Development
(go.osu.edu/funding)

- SPIN Funding Opportunities Database
  - www.infoedglobal.com > SPIN
- Research Development and Grant Writing Newsletter
  - http://go.osu.edu/grantwritingnews (OSU login required)
- Federal Grants and Contracts
  - http://grants.gov
- Research Databases
  - http://library.ohio-state.edu/screens/databases.html
Funding and Research Development (go.osu.edu/funding)

- Finding Collaborators
  - http://osu.academicanalytics.com/ faculty expertise

- Internal Funding Opportunities
  - College, institute/center, and department web sites

- Sponsored Program Officers
  - http://osp.osu.edu/spos

- Google Alerts and Google Scholar searches
  - http://google.com
Grant-Seeking Career Strategies

Internal Funding - Small Grants - Medium Grants - Big Grants - Huge Grants

Beginning or Early Career .......................................................... Height of Career
University Requirements

Proposals require:

• ePA-005 – Authorization to Seek Off-Campus Funds form with appropriate signatures
• Principal Investigator (PI) Status Eligibility
• Approvals for human subjects, animals, or other institutional clearances (research risks); conflict of interest requirements
• Facilities and administrative (F&A) costs
• The Ohio State University or The Ohio State University Foundation is listed as the applicant and contractual entity
Proposal may also require:

- Documentation that sufficient research space is available
- Documentation of sources of cost sharing, if included in proposal
- Faculty salary recovery if required by college
Cayuse424 Electronic Proposal Submission

- Ohio State’s federal agency proposal development and submission system
- Automates some tasks, e.g. completion of forms; facilitates collaboration, checks for commons errors and/or missing information, etc.
- Recommend submitting proposal at least 3-5 days before the actual deadline
What is the Difference between…

Office of Sponsored Programs (OSP)
- Does not have a 501(c)(3) designation
- Reporting requirements help determine who submits Government grants (federal, state, local)
- Facilities and Administration Costs where applicable
- [http://osp.osu.edu](http://osp.osu.edu)

The Ohio State University Foundation
- Does have a 501(c)(3)
- Individual donors
- Foundation Relations
- Corporate Relations
- Six month check hold (administrative costs)
- [http://giveto.osu.edu](http://giveto.osu.edu)
An Overview of Giving in 2016
Total Contributions: $390 billion
Contributions by source (by % of the total)

- **$122.94 billion** (32%) Religion
- **$59.77 billion** (15%) Education
- **$46.80 billion** (12%) Human Services
- **$40.56 billion** (10%) To Foundations
- **$33.14 billion** (8%) Health
- **$29.89 billion** (8%) Public-Society Benefit
- **$18.21 billion** (5%) Arts, Culture, and Humanities
- **$22.03 billion** (6%) International Affairs
- **$11.05 billion** (3%) Environment/Animals
- **$7.12 billion** (2%) To Individuals
Contributions by recipient category (by % of the total)

- Religion: 32%
- Education: 15%
- Human Svcs: 12%
- Gifts to Fdns: 12%
- Health: 8%
- Public-Society Benefit: 7%
- Arts, Culture & Humanities: 5%
- Int'l Affairs: 4%
- Environ/Animals: 3%
- Individuals: 2%

Less than three categories are estimated to be at their highest levels ever.
What is the difference between…

A Gift
A Contract
A Grant
What is a Gift?

A gift is a contribution or donation made on a non-competitive basis and may obligate the recipient to produce specific results, e.g., naming rights and other university benefits.

Processed by the Ohio State University Foundation.
**Contract:** legally binding agreement between one or more sponsors and the grantee

- Outlines specific goals and requirements for goods and/or services to be provided by the grantee
- The relationship between the sponsor and the grantee is one of procurement
- Processed by the Office of Sponsored Programs
What is a Grant?

**Grant:** an assistance award, generally financial in nature, given for the implementation of a specific task

- Generally not as restrictive as a contract
- Processed by the Office of Sponsored Programs
- Processed by the Ohio State University Foundation if a 501 (3) (c) nonprofit organization requirement is listed in the guideline
Identification

• Help identify who (people and organizations) shares your passion for your work: Is there an authentic overlap between their mission and your efforts?

• Determine if they have the capacity (finances/resources) to support your work: What is their giving level?

Research

• Study these potential sponsors: Who are their grantees? Is there one at OSU you can contact? Follow their news feeds for updates to their priorities and funding announcements.

• Foundation Relations can assist
Strategic Planning

• What are the best ways to engage with this sponsor? Through a colleague, through foundation relations, at conferences?
• Best time to request funding (funding cycle, most dollars available)

Cultivation

• Enables potential funder to learn more about your organization
• Work to establish a lasting relationship
• Investment is a natural resolution to a mutually recognized problem
**Solicitation**

- State your case effectively and show impact of investment
- Be sure to provide exactly what they request

**Stewardship**

- Fulfill all required reporting; say thank you
- Inform sponsor of your organization’s success in delivering the service

**Renewal**

- Sponsors are inclined to give to previous investments
- Do an outstanding job on deliverables and share results
- Ask about future support
Developing Your Proposal Begins with a Good Idea

• Does it address an important problem, i.e., will scientific knowledge be advanced and sustained?
• Does it build upon (incremental) or expand current knowledge (transformative/novel/innovative)?
• Is it feasible to implement and to investigate?
• Have you researched the sponsor’s web site? Has it already been funded?
• Have you selected the right sponsor; is project aligned with sponsor’s mission?
• Have you followed all guidelines?
• Is the budget realistic and includes only essential costs?
Sample Pre-Submission Timeline

**PLANNING PHASE**
- Months before receipt date: 8
  - Assess yourself, your field, and your resources
  - Brainstorm; research your idea; call NIAID program staff
  - Set up your own review committee; determine human and animal subject requirements

**WRITING PHASE**
- Months before receipt date: 7
  - First outline your application’s structure; then write your application

**SUBMISSION PHASE**
- Months before receipt date: 6
  - Get feedback; edit and proofread
  - Meet institutional deadlines

**Receipt date**
So WHY Plan?

You’re more likely to get…

• A compelling scientific question
• Appropriate sponsor
• Appropriate review committee
• Adequate time to complete
  ➢ A major stress reducer, no need to wait to get started

…a better grant application
Components of a Grant Proposal
Components of Grant Proposal

- Cover Letter
- Executive Summary
- Project Description (includes evaluation plan)
- Budget
- Organizational Information (ask department/college for assistance)
- Conclusion
- Appendix
Components of a Cover Letter

- Reference conversations/past contacts
- Make the request (including the ask amount)
- Describe what is in your proposal package (narrative, appendix)
- Offer to answer questions/meet
- Institutional signature(s)
• Statement of Need – Set the stage and lay out the problem (*Who cares*)
• Challenges to solving problem – New approach
• Expertise and background on organization
• Project description with goals and objectives and evaluation plan – Create vision (*So What*)
• Funding requirements
Project Description

• Goals and objectives
• Planned activities (outputs)
• Project time line
• Evaluation and sustainability plan
  ❑ Identify key indicators of success
  ❑ Outline data collection plan
  ❑ Develop timeline to monitor the success of the project on an ongoing basis
  ❑ How will project move toward self-sufficiency in the future and continue without support from sponsor (Capacity Building)
Sample Logic Model
Evaluation Plan

• Multiple forms of evaluation
  □ Measure the product
  □ Analyze the process and or/strategies you have adopted
  □ Determine the impact on the audiences you serve and the measurable outcomes of the project

• Describe the manner in which evaluation and its results will be collected and how the data will be analyzed
Organizational Information

• Depending on how the proposal is routed, additional institutional information may need to be submitted, e.g., list of board members, audited financial statements, IRS determination letter, etc.
Conclusion

- Final appeal
- Reiterate what the funder wants and why it is important
1. Expense Information
   • Personnel
   • Non-personnel
   • Overhead

2. Income Information
   • Earned income
   • Grants and Gifts

3. Budget Narrative and/or Justification
Appendix

- Additional information they may request, examples memorandum of understanding (MOU) or letters of support.
- Additional documents which add to the credibility of the proposal, e.g., journal articles, CVs, etc. (refer to guidelines)
Scientific Proposal Contents

- Abstract
- Methods
- Expected Results
- Potential problems and plans for resolution
- Budget and justification
- Personnel and their qualifications
- References cited
- Letters of support
Why Are Proposals Not Funded: Common Proposal Weaknesses

- Project not “innovative” or “transformative” enough; questionable importance
- Project not logical; planning is lacking
- Lack of preliminary data; need not documented
- Staff unqualified; team lacks expertise
- Overly ambitious; project timeline unrealistic

**Key point:** make it easy for reviewers to understand and read
NSF: Return Without Review

- Inappropriate for funding by the NSF
- Insufficient lead-time before activity is to begin
- Does not separately address merit review and one-page Project Summary
- Already received a “not invited” response; duplicates another proposal already awarded
- Does not meet requirements, i.e., page limits, formatting, etc.; not responsive to program guidelines
Common Reasons Cited for a Weak Application

- Lack of or weak impact
- Significance not obvious or weak
  - Too ambitious, lacking focus
  - Unclear or flawed hypothesis
  - Feasibility unsupported
- Poor writing
- Applicant track record weak or lacking appropriate expertise
- Approach flawed
Hallmarks of an Outstanding Grant Application

- Strong significance to an important problem; IMPACT is high; high degree of novelty and innovation; clear rationale
- Strong track record by a well-qualified applicant
- Relevant and supportive preliminary data
- Clear and focused approach that provides unambiguous results
- Careful attention to details:
  - Fonts, clarity of data, spelling, etc.
How To Assure That Your Grant Gets Funded?

• Good ideas, well-presented always win
• Think and write clearly
• Be complete but not verbose
• Never lose sight of the significance; point to the impact
• Pay attention to details
• Collaborate with other investigators
  • Fills gaps in your expertise and training
  • Add critical skills to your team
• “Team Science” is powerful
Incorporate review criteria in your subheadings

Know that reviewers are exceptionally busy people
  • Typically do not read proposal all at once
  • Most may not have expertise in your field of study

Ask for a list of reviewers when available; review their funding history and publications

Talk with colleagues who have served as peer reviewers and/or volunteer to serve as a reviewer
Science of How You Communicate

• Use active voice rather than passive voice
• Minimize the separation between subject and verb; use short, concise sentences
• Articulate the direction action in the verb when appropriate
• The subject whose story is being told should be at the beginning of the sentence in the topic position
• New, important (exciting!) information should be at the end of the sentence in the stress position
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Assuring Responsiveness to a Sponsor’s Needs

“This pre-application is in response to the Beckman Young Investigators program. The proposed research presents a disruptive nanotechnology that could potentially establish a new interventional paradigm for multiple conditions, which aligns well with the objectives of the BYI foundation of fostering the “invention of methods, instruments, and materials that will open up new avenues of research” in life sciences.”
Reviewer Comments:

1. Strengths are numerous and include novel and innovative hypotheses, sound experimental design using multidisciplinary approaches, a highly qualified investigator and research team, and a high likelihood of meaningful findings

2. Strengths include the significance of the central hypothesis, the well-designed experimental plan, supportive preliminary data...

3. ...the rationale for the studies are clearly delineated, appropriate controls are in place, scope of the studies is appropriate, and there is … complete discussion of possible limitations of some approaches and how findings will be interpreted
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