

HOW TO WRITE A GOOD GRANT APPLICATION

SORRY, A GREAT GRANT APPLICATION

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THE RESEARCH SCIENTIST'S DELEMA

FUNDAMENTAL ELEMENTS







HOW TO GET MONEY \$\$\$

Beg [need a benefactor]

Borrow [not possible]





Steal [not recommended]

Write a grant application

YOU MAY ASK:

WHY IS THIS OLD MAN GIVING THIS TALK?



AGE AND EXPERIENCE

Grants Applications Reviewed for:





Search for the best source of funding. Make sure you and your institution qualify.

BEFORE YOU START WRITING:



Funding agencies only accept applications that match their funding priorities.



Know and follow the rules.



Do the above and you might just get funded and become famous.

ANATOMY OF A GRANT APPLICATION

SUMMARY OF MAJOR GUIDELINES

Title and Author(s)

Abstract (Summary)

Objectives and Rationale

Introduction and background

Experimental Plan

Discussion of Significance and Innovation

Detailed Budget

Principal Investigator

Keep it short, but fully describe the topic of the study

THE TITLE:

Attract interest and attention to the study

THE AUTHOR(S):

The first author is the principal investigator (PI) responsible for the grant application

Include all individuals, and their role, i.e., a statistician.



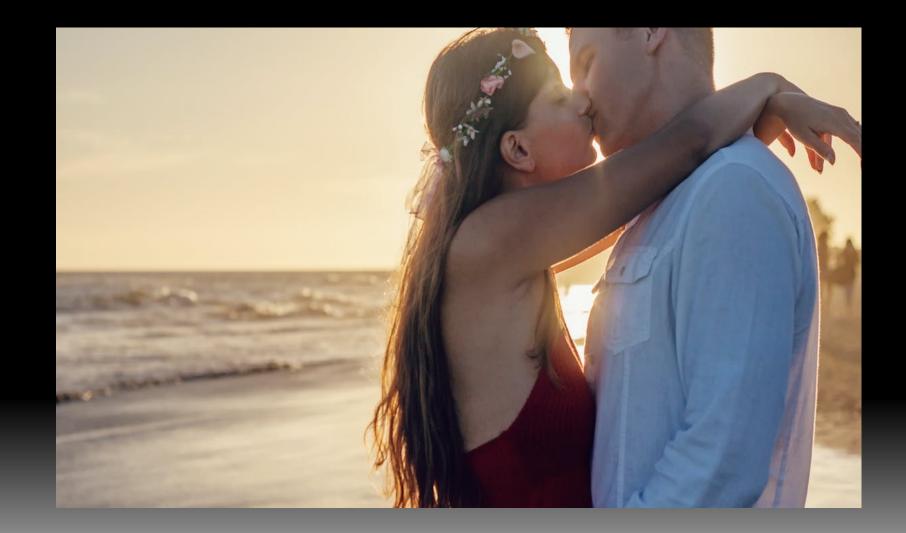
The abstract is one of the most important parts of the application. The reviewers get their first and most important impression

If you do a great job writing the abstract, the reviewers will have a positive attitude reviewing the rest of the proposal.

FIRST ENCOUNTER: FIRST IMPRESSIONS ARE IMPORTANT



FIRST IMPRESSIONS CAN LEAD TO SUCCESS



OR FAILURE





The objectives should match the time frame and the budget.



The rationale should justify each objective.

OBJECTIVES AND RATIONALE



Clarity of writing is essential !!!

INTRODUCTION AND BACKGROUND

'STATE OF THE ART'

Include what has been done by you and others

What needs to be done to advance knowledge?

How does your proposed work fit those needs?



THE EXPERIMENTAL PLAN

•BE REALISTIC IN YOUR RESEARCH GOALS.

• RESTATE YOUR OBJECTIVES AND SHOW HOW YOUR EXPERIMENTAL DESIGN WILL ADDRESS EACH OBJECTIVE.

•CONSULT A STATISTICIAN.

• A POOR RESEARCH DESIGN AND THE WRONG STATISTICAL ANALYSIS WILL SINK YOUR PROPOSAL.

DISCUSSION:



Stress the innovation and significance of the proposed studies.



Use phrases that can be used by the reviewers as they prepare their summaries.





The budget must be realistic and tailored to the objectives.



Do not pad the budget with unrelated items.



The university office of grants the contracts should be involved in the preparation of the budget.



This section takes a long time to prepare.



INSTITUTIONAL REVIEW BOARD

THE IRB

• GRANT APPLICATIONS MUST BE REVIEWED BY THE IRB BEFORE SUBMISSION.

• THE IRB HAS SUBCOMMITTEES THAT REVIEW ETHICS, HUMAN SUBJECTS, ANIMALS, RADIATION, TOXIC CHEMICALS, VIRUSES, BACTERIA, AND GENETIC MANIPULATION

UNIVERSITY OFFICE OF GRANTS AND CONTRACTS



All grant applications must be signed by an authorized university official



Grants are usually made to institutions, not to individuals



Spending of the grant is monitored by the university accounting office



THE REVIEW PROCESS

 You finished the grant application [months of effort, <u>not</u> days or hours]

• YOU RECEIVED ALL NECESSARY SIGNATURES, I.E., THE IRB, THE AUTHORIZED UNIVERSITY OFFICIALS, ETC.

• You sent off the proposal **EARLY!!**

• <u>NOW WHAT HAPPENS?</u>

INITIAL REVIEW PROCESS

Reviewed by the administrative staff of the granting agency FOR COMPLIANCE TO THE RULES.

RULES VIOLATIONS? Your application may be, "administratively withdrawn". It will not be reviewed.

DECISION TIME:

 The chair of the review board selects a primary reviewer, a secondary reviewer and 2-3 readers.

• The primary reviewer assigns a priory score. She/He writes a summary and presents her/his assessment to the whole review board (about 30 people). The secondary reviewer does the same. The readers agree or disagree with the assessment.

• Your applications is discussed and scored by the whole board.

DECISION TIME

ALL GRANT APPLICATIONS ARE RANKED BY SCORE

• THE AVAILABLE FUNDS ARE MATCHED TO THE RANKED SCORES AND A LINE IS DRAWN.





TIPS FOR SUCCESS

Write	Follow	Help	Finish
Write simply and clearly (Do not use google translate, the Chat-generative pre-trained transformer (GPT) or other AI bots.	Follow the rules!!	Have people you trust and who are knowledgeable in the field read the proposal	Finish the proposal and submit it early . The administrative assistants will kiss you.

THIS PRESENTATION IS AVAILABLE ON LINE AT:

• ONLINE LOCATION: