Developing STEM Educational Grant Proposals: Best Practices

David Jeff Jackson

Electrical and Computer Engineering The University of Alabama, Tuscaloosa, AL 35487-0286

Abstract

Many programs at the National Science Foundation (NSF), and other funding agencies, have a goal of the improvement of science, technology, engineering, and mathematics (STEM) education. Funding opportunities exist for laboratory development and curricula reform in support of improvement in student learning and STEM educational pedagogy. Understanding all facets of the grant proposal process, from inception through proposal review and, ideally, to grant awarding is critical in the development of nationally competitive grant proposals. With many components required for a successful grant proposal, it is important for a potential grantee to develop a set of best practices when undertaking grant proposal writing efforts.

The author of this paper has written a successful NSF Adaptation and Implementation grant proposal [1] entitled "An Integrated Internet-Accessible Embedded Systems Laboratory" and a successful NSF Department Level Reform grant proposal [2] entitled "Developing a Modern Computer Engineering Curriculum Focusing on Embedded Systems." The goal of this paper is to suggest best practices for proposals for people considering writing similar grant proposals. Considerations include properly addressing program solicitation requirements, proposal organization, proposal readability, and related issues.

Introduction

NSF supports STEM education through many programs [3-6]. These programs span multiple directorates and divisions including, most notably, the Division of Undergraduate Education (DUE). Programs currently supported in DUE fall under the categories of Curriculum, Laboratory & Instructional Development and Workforce Development. The well known Course, Curriculum, and Laboratory Improvement (CCLI) program one example. With the numerous programs and solicitations supported, many opportunities for STEM educational grant proposals are available.

Other, often cross directorate, STEM programs include Grants for the Department-Level Reform of Undergraduate Engineering Education (DLR), Centers for Learning and Teaching (CLT), Research Experiences for Undergraduates (REU). Many of these programs are a part of the Division of Engineering Education and Centers (EEC). In developing a STEM proposal, selecting the correct program, and the correct solicitation, is the first step in the successful proposal process. A proposal that does not fit the program/solicitation, however well conceived, may stand little chance of funding. A well thought out plan that not only addresses the correct program, and the correct solicitation, but that also plans for future related proposal development to other programs is more likely to be well received.

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Table of Contents Sample Stem Grant

- 1. Understanding the eBook Sample Stem Grant
 - The Rise of Digital Reading Sample Stem Grant
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Sample Stem Grant
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sample Stem Grant
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Sample Stem Grant
 - Personalized Recommendations
 - Sample Stem Grant User Reviews and Ratings
 - Sample Stem Grant and Bestseller Lists
- 5. Accessing Sample Stem Grant Free and Paid eBooks

- Sample Stem Grant Public Domain eBooks
- Sample Stem Grant eBook Subscription Services
- Sample Stem Grant Budget-Friendly Options
- 6. Navigating Sample Stem Grant eBook Formats
 - o ePub, PDF, MOBI, and More
 - Sample Stem Grant Compatibility with Devices
 - Sample Stem Grant Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sample Stem Grant
 - Highlighting and Note-Taking Sample Stem Grant
 - Interactive Elements Sample Stem Grant
- 8. Staying Engaged with Sample Stem Grant
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sample Stem Grant
- 9. Balancing eBooks and Physical Books Sample Stem Grant
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sample Stem Grant
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Sample Stem Grant
 - Setting Reading Goals Sample Stem Grant
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sample Stem Grant
 - Fact-Checking eBook Content of Sample Stem Grant
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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