Grant Writing for Data-Intensive Research Projects Training Course

Professional Development Training Course Outline

Category	Research and Data Analysis	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

In today's competitive research landscape, acquiring funding for data-intensive research projects requires exceptional grant writing skills, strategic funding knowledge, and the ability to articulate complex data-driven methodologies. Grant Writing for Data-Intensive Research Projects Training Course is tailored for researchers, data scientists, and academic leaders seeking to secure competitive grants in fields such as Big Data Analytics, AI Research, Computational Biology, and Climate Data Studies. The program emphasizes writing winning proposals that align with the latest trends in data science, data management, high-performance computing, and open science frameworks, ensuring researchers remain at the forefront of innovation.

This course bridges the gap between technical research skills and persuasive proposal development, providing participants with the competencies to craft proposals that address funding agency priorities such as open data policies, data ethics, reproducibility, and FAIR data principles. With expert insights, practical frameworks, and case studies from successful multimillion-dollar projects, this program equips researchers to thrive in the highly competitive space of data-driven grant opportunities.

Programme Curriculum

Grant Writing for Data-Intensive Research Projects Training Course

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Course Objectives

1. Master the essentials of data-driven grant writing.
2. Align research proposals with AI, Big Data, and Open Science priorities.
3. Develop strategies for multi-disciplinary and collaborative research funding.
4. Integrate FAIR data principles and data ethics into grant proposals.
5. Optimize proposals for NSF, NIH, Horizon Europe, and global funding bodies.
6. Enhance skills in budget planning for data-intensive projects.
7. Craft compelling narratives for high-performance computing and data infrastructures.
8. Apply techniques for effective data management plans (DMPs).
9. Understand funding trends in machine learning, climate data, and computational research.
10. Improve impact and dissemination strategies for data-centric projects.
11. Navigate challenges in data privacy, security, and governance.
12. Gain insights on proposal evaluation criteria and reviewer expectations.
13. Leverage real-world case studies of funded data-intensive projects.

Target Audiences

1. Academic Researchers
2. Data Scientists
3. University Grants Offices
4. Principal Investigators (PIs)
5. Postdoctoral Fellows
6. Research Coordinators
7. Policy Makers in Science and Technology
8. NGOs & Research-Focused Organizations

Course Duration: 5 days

Course Modules

Module 1: Foundations of Grant Writing for Data-Intensive Research

- Understanding the funding landscape for data projects
- Identifying suitable grant opportunities
- Key components of successful proposals
- Tailoring proposals to data-driven research needs
- Addressing data policies and compliance
- **Case Study:** Winning a NSF Grant for Computational Neuroscience

Module 2: Designing Research for Big Data and AI Funding

- Framing research questions around big data challenges
- Highlighting innovation in AI and data science
- Demonstrating societal and technological impact
- Incorporating scalable data solutions
- Partnering with cross-disciplinary teams

- **Case Study:** Securing Horizon Europe AI Research Grants

Module 3: Crafting Data Management Plans (DMPs)

- Introduction to DMP requirements across funders
- Implementing FAIR Data Principles
- Addressing data privacy and security
- Selecting repositories and data sharing protocols
- Monitoring data lifecycle management
- **Case Study:** Effective DMP for a NIH Bioinformatics Project

Module 4: Integrating Open Science and Reproducibility

- Understanding Open Science mandates
- Best practices for reproducibility in data research
- Licensing and data sharing ethics
- Utilizing open-source tools and platforms
- Communicating transparency in proposals
- **Case Study:** Open Science success in Climate Data Projects

Module 5: Budgeting and Resource Planning for Data Projects

- Estimating computational and data storage costs
- Justifying personnel and infrastructure needs
- Allocating resources for data curation
- Balancing direct and indirect costs
- Aligning budget with funder expectations
- **Case Study:** Budgeting for an HPC-Powered Genomics Study

Module 6: Proposal Writing Techniques and Narrative Development

- Writing impactful problem statements
- Structuring the proposal for clarity
- Developing a compelling research narrative
- Aligning objectives with funding calls
- Tailoring language for non-technical reviewers
- **Case Study:** Narrative Techniques in a Successful AI Grant

Module 7: Impact, Dissemination, and Stakeholder Engagement

- Defining project impact and sustainability
- Planning outreach and dissemination strategies
- Engaging with policymakers and communities
- Incorporating stakeholder feedback
- Visualizing impact through data storytelling
- **Case Study:** Dissemination Strategy in an EU Data Infrastructure Grant

Module 8: Proposal Review Process and Grant Success Strategies

- Understanding peer review and evaluation criteria
- Common pitfalls in data grant applications
- Revising and resubmitting proposals
- Building a grantsmanship mindset
- Long-term funding strategies
- **Case Study:** Overcoming Rejection to Win a Major Data Research Grant

Training Methodology

- Interactive lectures and expert-led discussions
- Hands-on grant proposal writing workshops
- Peer review and feedback sessions
- Real-world case study analyses
- Templates, toolkits, and proposal frameworks
- Access to funding databases and resources

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com