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Grant Template

K-12 STEM

Document Purpose

This document will assist you as you seek funding to implement SimInsights in your K-12 STEM program. It is designed around the critical components of a grant proposal and includes tips for grant writing.

Planning your Project/ Proposal

SimInsights Learning

Knowing how you plan to use SimInsights in your school before you begin your proposal will be beneficial. SimInsights' HyperSkill platform offers a unique approach to STEM education through immersive, personalized learning and assessment using VR/AR technology.

- SimInsights allows students to interact with 3D objects, participate in realistic simulations, and develop critical thinking skills.
- HyperSkill allows for multiuser interaction and collaboration, creating engaging learning environments.
- Unlike other AR/VR solutions that can be isolating due to head-mounted displays, HyperSkill encourages interaction and group collaboration.

Implementation Models

Station Rotation
Students rotate through stations, one including SimInsights, for teacher-led instruction or independent practice.

Lab Rotation
SimInsights can be integrated into computer lab rotations for hands-on learning and application of concepts.

Flipped Classroom
SimInsights can be integrated into computer lab rotations for hands-on learning and application of concepts.

Individual Rotation
SimInsights can be integrated into computer lab rotations for hands-on learning and application of concepts.

Remote Learning
SimInsights can be integrated into computer lab rotations for hands-on learning and application of concepts.

Learning Content

SimInsights offers a range of applications covering various STEM subjects, including:

- Agriculture
- Automotive
- Aviation
- Chemistry Lab
- Construction
- CTE
- Culinary
- Data center
- Drone
- Fire Science
- Forensics
- Healthcare
- Manufacturing
- Math
- Police
- Robotics
- Semiconductor
- Soft Skills
- Speech

Writing your Grant

School or Organizational Background

Provide a brief overview of your school, highlighting any unique characteristics or demographics relevant to the grant.

Grant Summary

Concisely describe your proposal to implement SimInsights, emphasizing the expected benefits for students.

Examples:

- [Your School Name] proposes to use SimInsights' HyperSkill platform to enhance STEM education by providing immersive, interactive, and personalized learning experiences.
- [Your School Name] seeks to increase student engagement and achievement in STEM by integrating SimInsights' VR/AR technology into the curriculum.

State your Need/Problem

Explain the challenges your school faces in STEM education and how SimInsights can address those needs. Back up your claims with data, research, or anecdotal evidence. Address issues such as:

- Low student achievement in STEM subjects.
- Lack of student engagement and motivation in STEM.
- Limited opportunities for hands-on, real-world STEM experiences.
- Digital use divide, digital design divide, and digital access divide.

Goals and Objectives

Define SMART goals and objectives that are specific, measurable, achievable, relevant, and time-bound. Focus on outcomes such as improved student test scores, increased engagement, and development of 21st-century skills.

Project Description

Outline your project plan, including:

SimInsights Champions

Identify a team of stakeholders to lead the implementation.

Establishing Expectations

Define best practices and usage guidelines for SimInsights.

Technology Implementation

Detail the setup, configuration, and integration of SimInsights into your school's infrastructure

Professional Learning

Provide a plan for training teachers on using SimInsights effectively.

Online Learning

Utilize SimInsights' online resources to supplement professional development and provide ongoing support.

Observations and Data

Describe how you will monitor progress, collect data, and evaluate the impact of SimInsights.

Anticipated Challenges

Discuss potential obstacles and your strategies to overcome them.

Partnerships/Collaborations

Highlight any collaborations that will support your project.

Celebrating Success

Plan ways to recognize and share achievements with the community.

Example:

Our school/district seeks to transform STEM education by implementing HyperSkill, an innovative, AI-powered immersive learning platform. HyperSkill includes a library HyperSkill's library of 300+ simulations offers immediate access to ready-made content that covers CTE and core STEM topics, while its analytics feature provides actionable insights to improve student outcomes. This initiative will increase student engagement, improve STEM proficiency, and prepare students for future careers in science, technology, engineering, and mathematics. HyperSkill also allows educators and students to create and deploy interactive, engaging, and adaptive simulations that align with STEM curriculum standards. The platform's no-code authoring tool empowers teachers to customize content for diverse learning needs, making it ideal for K-12 students at various proficiency levels."

Project Budget

Develop a comprehensive budget that includes the cost of SimInsights software ($5,388/yr for the premium tier), hardware (if applicable), professional development, and any other associated expenses.

Evaluation Plan

Outline your methods for evaluating the project's success. Align evaluation metrics with your goals and objectives. Consider using a mix of quantitative and qualitative data, such as:

- Student achievement data
- Engagement surveys
- Teacher feedback
- Classroom observations

Sustainability

Present a plan for sustaining the project beyond the grant funding period. Address long-term budgeting, professional development, technical support, and continued integration of SimInsights into the curriculum.

Additional Tips

- Tailor the templates to the specific grant opportunity you are pursuing.
- Thoroughly research the grant guidelines and the funder's priorities.
- Use clear, concise language and provide specific examples to support your claims.
- Proofread carefully before submitting your proposal.

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Grant Template

CTE Workforce Development

Document Purpose

This document will assist you as you seek funding to implement SimInsights in your CTE Workforce Development program. It is designed around the critical components of a grant proposal and includes tips for grant writing.

Planning your Project/ Proposal

SimInsights Learning

Knowing how you plan to use SimInsights in your organization before you begin your proposal will be beneficial. SimInsights provides students with realistic and engaging learning experiences by allowing them to participate in simulations of real-world tasks and environments, specifically in manufacturing. SimInsights' HyperSkill platform offers a unique approach to CTE Workforce Development through:

- **Immersive Training Environments**: HyperSkill creates virtual environments where students can practice skills without real-world risks or consequences.
- **Personalized Learning**: The platform adapts to individual student needs, providing customized feedback and guidance.
- **Skills Assessment**: HyperSkill can be used to assess student competency in specific skills, providing valuable data for instructors and employers.
- **Industry-Recognized Certifications**: SimInsights can be aligned with industry certifications, ensuring students acquire relevant and marketable skills. SimInsights has collaborated with organizations such as the National Center for Research on Evaluation, Standards, and Student Testing at UCLA, DARPA, US Army (TATRC), and the Office of Naval Research (ONR).

Implementation Models

Station Rotation in the Classroom or Lab

Students rotate through stations, one including SimInsights, for targeted skills training.

Computer Lab Rotation

SimInsights can be integrated into computer lab rotations for virtual simulations and hands-on practice.

Blended Learning
SimInsights can supplement traditional instruction, providing a virtual component to enhance hands-on activities.

Flexible Learning
Students can access SimInsights at their own pace, allowing for individualized learning pathways.

Remote Learning
SimInsights can be used for remote instruction, demonstrations, and skills practice, expanding access to training.

CTE and Workforce Development Learning Content and Credentials

SimInsights offers a range of applications and simulations that support various CTE career clusters:

- **Advanced Manufacturing**: Students can learn about CNC machining, robotics, welding, and other manufacturing processes.
- **Health Sciences**: SimInsights can provide simulations for medical procedures, patient care, and other healthcare-related tasks. SimInsights has collaborated with UCLA and Texas A&M in healthcare training.
- **Information Technology**: SimInsights can be used to train students in data center operations, cybersecurity, and other IT-related fields.
- **Skilled Trades**: SimInsights can provide simulations for electrical wiring, plumbing, HVAC, and other skilled trades. SimInsights has collaborated with Semikron in training factory workers.
- **Transportation**: SimInsights can be used to train students in automotive repair, aviation maintenance, and other transportation-related fields.

Writing your Grant

School or Organizational Background

Provide a brief overview of your CTE Workforce Development program, highlighting its mission, demographics, and any relevant achievements.

Grant Summary

Concisely describe your proposal to implement SimInsights, emphasizing how it will enhance workforce readiness and student outcomes.

Examples:

- [Your Organization Name] proposes to integrate SimInsights' HyperSkill platform into its CTE program to provide students with immersive, industry-aligned training in advanced manufacturing.
- [Your Organization Name] seeks to improve student employability and address the skills gap in the local workforce by leveraging SimInsights' VR/AR technology for hands-on training and skills assessment.

State your Need/Problem

Explain the challenges your CTE program faces in preparing students for the workforce and how SimInsights can provide solutions. Address issues such as:

- High demand for skilled workers
- Rapidly evolving industry needs
- Limited access to expensive equipment
- Safety concerns in traditional training environments

Support your claims with data, research, and stories from your program.

Goals and Objectives

Define SMART goals and objectives aligned with your project plan. Focus on measurable outcomes such as:

- Increased student attainment of industry certifications.
- Improved student job placement rates.
- Enhanced employer satisfaction with graduate skills.
- Reduced training costs and improved training efficiency.
- Increased student engagement and motivation in CTE programs.
- Improved student collaboration and communication skills.

Project Description

Detail your project plan for implementing SimInsights, including:

SimInsights Champions
Identify a team of instructors, administrators, industry partners, and other stakeholders to lead the project.

Establishing Expectations
Define clear expectations for the use of SimInsights, including integration into curriculum, assessment methods, and data collection procedures.

Technology Implementation
Outline the process for acquiring, setting up, and integrating SimInsights into your existing CTE infrastructure.

Professional Learning
Develop a comprehensive plan for training instructors on using SimInsights effectively, including pedagogical strategies, technical skills, and assessment tools.

Online Learning
Leverage SimInsights' online resources to supplement professional development, provide ongoing support, and keep instructors updated on new features and applications.

Observations and Data
Describe how you will track student progress, collect data on program effectiveness, and evaluate the impact of SimInsights.

Anticipated Challenges
Discuss potential challenges, such as instructor buy-in, technology integration issues, and student access to necessary equipment, and present your strategies for addressing these challenges.

Partnerships/Collaborations
Highlight partnerships with local businesses, industry organizations, or other educational institutions that will support your project and provide valuable resources or expertise.

Celebrating Success
Plan to recognize and share project achievements with the community, including showcasing student successes and program outcomes.

Examples:

- Our school/district seeks to transform STEM education by implementing HyperSkill, an innovative, AI-powered immersive learning platform. HyperSkill includes a library HyperSkill's library of 300+ simulations offers immediate access to ready-made content that covers nearly two dozen career pathways, many of which are in-demand jobs. This initiative will increase student engagement, improve STEM proficiency, and prepare students for future careers in science, technology, engineering, and mathematics. HyperSkill also allows educators and students to create and deploy interactive, engaging, and adaptive simulations that align with STEM curriculum standards. The platform's no-code authoring tool empowers teachers to customize content for diverse learning needs, making it ideal for K-12 students at various proficiency levels.

- HyperSkill also supports rapid creation of engaging simulations that replicate real-world tasks, helping students develop critical skills for high-demand careers. This initiative will focus on creating simulations for industries such as advanced manufacturing, healthcare, and information technology, providing students with hands-on learning experiences that prepare them for workforce entry or further education.

Project Budget

Create a detailed budget that outlines all project expenses, including software licenses, hardware costs, professional development fees, materials, and any other associated costs.

Evaluation Plan

Develop a plan to evaluate the effectiveness of SimInsights in your CTE program. Align evaluation methods with your project goals and objectives. Consider using data points such as:

- Student performance on industry certifications
- Job placement rates
- Employer feedback
- Student engagement surveys
- Instructor observations.

Sustainability

Present a plan to ensure the long-term sustainability of your project. Address strategies for ongoing funding, license renewals, professional development, technical support, and continuous improvement of the SimInsights integration into your CTE Workforce Development program.

Additional Tips

- Tailor the templates to the specific grant opportunity you are pursuing.
- Thoroughly research the grant guidelines and the funder's priorities.
- Use clear, concise language and provide specific examples to support your claims.
- Proofread carefully before submitting your proposal.