

KETCHIKAN GATEWAY BOROUGH SCHOOL DISTRICT BOARD OF EDUCATION
AGENDA STATEMENT

No. 8 b.

MEETING OF January 10, 2024

ITEM TITLE:

CONSENT CALENDAR

REVIEWED BY:

Motion to approve the Heavy Equipment
Simulator grant application

Superintendent
 Finance
 Administration

SUBMITTED BY: Melissa Johnson, Deputy Superintendent, 907 247 2109

APPROVED FOR SUBMITTAL: Michael Robbins, Superintendent, 907 247 2109

SUMMARY STATEMENT:

The School Board is being asked to approve the application and acceptance of a Heavy Equipment Simulator grant.

ISSUE:

Per Board Policy 3291, School Board approval is required for grant applications exceeding \$5,000. Each year the District submits applications for the award of formula state and federal continuation grants.

BACKGROUND:

In order to enhance the quality of vocational education and provide students with a realistic and hands-on learning experience, our school is in dire need of a CTE grant to acquire Heavy Equipment Simulators for our class. The inclusion of a Heavy Equipment Simulator in both the Automotive CTE and Computer Engineering CTE programs at Ketchikan High School would significantly enhance the educational experience for students. This advanced technology provides a dynamic and immersive learning experience that resonates with students' interests and the evolving demands of modern industries.

RECOMMENDATION:

Approval of the Heavy Equipment Simulator grant application.

ATTACHMENTS:

- *Heavy Equipment Simulator grant application*

FISCAL NOTE:

N/A

RECOMMENDED ACTION (*Only if not approved as part of the Consent Calendar*):

"I move that the Board of Education **approve the Heavy Equipment Simulator grant application in the amount of \$32, 380**"

Ketchikan Gateway Borough School District

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Ph. (907) 247-2109 • Fax: (907) 247-3820

Michael Robbins, Superintendent • Melissa Johnson, Deputy Superintendent

Daniel Schuler, Business and Operations Manager • Sally Stockhausen, Director of Special Services

Alonso Escalante, Human Resources Director • Michael Cron, Director of Student Supports



Ketchikan Gateway Borough School District

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Ketchikan, Alaska 99901

Program Contact

Melissa Johnson

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Fiscal Contact

Daniel Schuler

Daniel.Schuler@k21schools.org

907-247-2116

Project Title: Heavy Equipment Simulators


Total Funding Requested: \$32,380

By Signing below, I certify that:

1. This application is consistent with the intent of the Request for Applications.
2. This grant will provide equitable access to program resources for participants.
3. I am authorized to legally bind the grantee to the conditions and responses of this application.

Project Duration: 1/30/2024 to 6/30/2024

Authorized Representative:


Melissa Johnson Deputy Superintendent

December 20, 2023

Thank you for considering our proposal. We welcome the opportunity to discuss it further and provide any additional information you may require.

Sincerely,


Melissa Johnson

Deputy Superintendent

Melissa.Johnson@k21schools.org 907-247-2136

Need Statement:

CTE Project: Heavy Equipment Simulator

In order to enhance the quality of vocational education and provide students with a realistic and hands-on learning experience, our school is in dire need of a CTE grant to acquire Heavy Equipment Simulators for our class. These simulators will play a crucial role in bridging the gap between theoretical knowledge and practical skills in the field of heavy equipment operation. With the increasing demand for skilled professionals in industries such as construction, our students must be equipped with the practical expertise required for success in this field. The acquisition of Heavy Equipment Simulators will not only elevate the overall quality of our CTE program but will also ensure that our students are well-prepared and confident in operating heavy machinery, contributing to their future employability and career success.

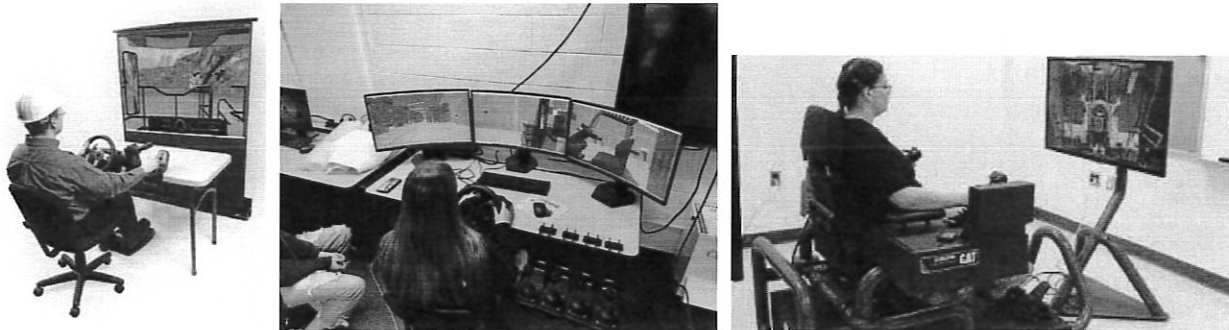
The inclusion of a Heavy Equipment Simulator in both the Automotive CTE and Computer Engineering CTE programs at Ketchikan High School would significantly enhance the educational experience for students. This simulator serves as a dynamic tool that transcends traditional boundaries, allowing students from both disciplines to engage collaboratively in a hands-on learning environment. For the Automotive CTE program, the simulator offers a unique opportunity to expand skill sets to include heavy machinery operation and maintenance. Students can practice complex maneuvers and diagnostic procedures specific to larger vehicles. Simultaneously, in the Computer Engineering CTE program, students can delve into the programming and optimization of electronic systems governing heavy equipment, aligning with the increasing integration of technology in the automotive and heavy machinery sectors. The shared utilization of the Heavy Equipment Simulator promotes interdisciplinary collaboration, preparing students with a holistic skill set that is reflective of the interconnected nature of modern industries.

The incorporation of a Heavy Equipment Simulator into our CTE programs creates a valuable bridge between education and local industry needs. By aligning simulator training with the practical skills required by our community's heavy equipment industry, we ensure that our students are well-prepared for the workforce. This collaboration extends beyond the classroom, providing a platform for local industry professionals to engage with our students, offering insights, guidance, and potentially internship opportunities. The simulator acts as a practical training ground, allowing students to familiarize themselves with the specific equipment and challenges prevalent in our local industry. This not only enhances the employability of our graduates but also strengthens the ties between our educational institution and the evolving demands of our community's workforce. The Heavy Equipment Simulator thus becomes a catalyst for fostering a symbiotic relationship between our school and the local industry, ensuring that our CTE programs remain responsive to the needs of our community.

The Heavy Equipment Simulator aligns seamlessly with the pressing workforce needs in Ketchikan, Alaska, where there is a substantial demand for skilled equipment operators. As our community relies heavily on various industries that involve the operation of heavy equipment, the simulator serves as a pivotal training tool to address this demand. By providing students with a realistic and immersive experience in operating heavy machinery, the simulator not only imparts practical skills but also boosts their confidence in handling real-world scenarios. This engagement is crucial in preparing students for the workforce, where proficiency in equipment operation is a highly sought-after skill. By integrating the Heavy Equipment Simulator into our CTE programs, we are proactively addressing the workforce needs of our local industries, ensuring that our students graduate with the competence and confidence required to excel in the field of professional equipment operation.

Proposed Grant Actions:

The acquisition of the Heavy Equipment Simulator represents a transformative enhancement to the CTE programs at Ketchikan High School. This advanced training tool enriches the educational experience by providing students in various CTE pathways, such as Automotive and Computer Engineering, with a hands-on simulation of heavy equipment operation. The simulator not only augments traditional learning methods but also fosters a practical understanding of heavy machinery mechanics and electronic systems integration. This enhancement ensures that students are well-equipped to meet the evolving demands of industries in our community, particularly in Ketchikan's need for professional equipment operators. The Heavy Equipment Simulator serves as a catalyst for a more comprehensive and industry-aligned CTE curriculum, empowering students with practical skills and confidence as they prepare for future careers in the workforce.



Timeline:

Month 1:

- **Weeks 1-2: Form a project team and outline project goals.**
- **Weeks 3-4: Research and identify suitable Heavy Equipment Simulator vendors.**

Month 2:

- **Weeks 1-2: Request quotes from selected vendors.**
- **Weeks 3-4: Evaluate proposals and select a vendor.**

Month 3:

- **Weeks 1-2: Finalize procurement details and obtain necessary approvals.**
- **Weeks 3-4: Issue purchase order and secure delivery timelines.**

Month 4:

- **Weeks 1-2: Receive and install the Heavy Equipment Simulator.**
- **Weeks 3-4: Conduct initial training for educators on simulator operation.**

Month 5:

- **Weeks 1-2: Finalize setup and conduct a launch event for students and stakeholders.**
- **Weeks 3-4: Monitor and assess the integration of the simulator into CTE programs.**

By following this 5-month timeline, Ketchikan High School can efficiently and effectively acquire and integrate the Heavy Equipment Simulator into its CTE programs, providing students with valuable hands-on experience in heavy machinery operation. Clarifying the need for a timeline in the acquisition of a Heavy Equipment Simulator is crucial for ensuring timely implementation due to several key reasons. First and foremost, a clear timeline provides a structured plan that helps the project team stay organized and focused on specific tasks. This clarity not only facilitates efficient communication among team members but also helps in coordinating with external stakeholders such as vendors and educators. A well-defined timeline creates accountability and a sense of urgency, motivating everyone involved to adhere to deadlines and contribute to the successful and timely implementation of the Heavy Equipment Simulator.

Planned Sustainability

The inclusion of the Heavy Equipment Simulator in the 2024-2025 school year promises to significantly elevate student engagement at Ketchikan High School. This advanced technology provides a dynamic and immersive learning experience that resonates with students' interests and the evolving demands of modern industries. Engaging with the simulator allows students to apply theoretical knowledge in a practical setting, fostering a deeper understanding of heavy equipment operation. The hands-on nature of the simulator not only captures students' attention but also instills confidence as they navigate real-world scenarios. This heightened engagement is expected to translate into increased enthusiasm for learning, as students actively participate in the acquisition of practical skills crucial for future careers in fields such as automotive technology and computer engineering. The Heavy Equipment Simulator stands as a catalyst for transforming the educational landscape, ensuring that students are not only academically adept but also well-prepared for the challenges of the workforce.

The addition of the Heavy Equipment Simulator in the subsequent years would significantly benefit students pursuing careers in automotive technology, heavy machinery operation, and computer engineering at Ketchikan High School. Those enrolled in CTE programs, specifically in automotive and computer engineering pathways, stand to gain invaluable practical experience through hands-on simulation. Students aspiring to become professional equipment operators will benefit by honing their skills in a controlled environment, preparing them for the challenges of real-world machinery operation. Additionally, computer engineering students will find the simulator instrumental in understanding the integration of electronic systems within heavy equipment. By catering to the needs of these specific student groups, the Heavy Equipment Simulator becomes a versatile educational tool, ensuring that graduates are well-equipped and industry-ready for diverse careers in automotive technology and heavy equipment operation.

The Heavy Equipment Simulator is poised to sustain rigor within the CTE program at Ketchikan High School by providing a realistic and challenging learning environment. As students engage with the simulator, they are exposed to authentic scenarios, intricacies, and complexities of heavy equipment operation. This hands-on experience enhances the program's rigor by bridging theoretical knowledge with practical application, ensuring that students develop a comprehensive skill set. The simulator also allows for the integration of industry-standard practices, aligning the curriculum with the demands of the workforce. Through the simulation, students are continually challenged to apply critical thinking, problem-solving, and decision-making skills, fostering a rigorous learning experience that prepares them for the complexities of careers in automotive technology and heavy machinery operation. The Heavy Equipment Simulator, as a tool, sustains the program's rigor by offering a dynamic and immersive educational platform that mirrors the challenges of real-world professional settings.

The integration of the Heavy Equipment Simulator into our CTE programs at Ketchikan High School represents a strategic leverage of resources. By consolidating a versatile and advanced training tool, we optimize resource allocation, as the simulator caters to both Automotive and Computer Engineering pathways. This multifunctional approach not only maximizes the utility of the simulator but also allows shared usage among different disciplines, ensuring cost-effectiveness. Furthermore, the simulator minimizes the need for expensive physical equipment and materials typically associated with heavy machinery, making it a sustainable and efficient resource. Through shared access and a comprehensive curriculum integration, the Heavy Equipment Simulator becomes a central resource that enhances the overall quality of our CTE programs.

Program Budget

Grant Recipient: Ketchikan Gateway Borough School District

Grant Number: _____

Grant Title: Heavy Equipment Simulator

Revision Number: _____

UNIFORM CHART of ACCOUNTS		Account Title	Budget Amount		
			Initial/Current Budget	Revisions (+ or -)	Approved Budget
Required	Optional				
310		CERTIFICATED SALARIES	2,000.00	(2,000.00)	0.00
	314	Director/Coordinator/Manager	2,000.00	(2,000.00)	
	315	Teacher		0.00	
	316	Extra Duty Pay		0.00	
	317	Certificated Substitutes		0.00	
	318	Specialists		0.00	
320		NON-CERTIFICATED SALARIES	0.00	0.00	0.00
	321	Director/Coordinator/Manager		0.00	
	323	Aides		0.00	
	324	Support Staff		0.00	
	329	Substitutes/Temporaries		0.00	
360		EMPLOYEE BENEFITS	593.00	(593.00)	
390		TRANSPORTATION COSTS		0.00	
410		PROFESSIONAL & TECHNICAL		0.00	
420		STAFF TRAVEL		0.00	
425		STUDENT TRAVEL		0.00	
430		UTILITY SERVICES		0.00	
440		OTHER PURCHASED SERVICES		0.00	
450		SUPPLIES/MATERIALS/MEDIA	29,787.00	(29,787.00)	0.00
	451	Teaching Supplies		0.00	
	454	Office Supplies		0.00	
	457	Small Tools & Equipment		0.00	
	471	Textbooks		0.00	
490		OTHER EXPENSES (Dues & Fees)		0.00	
		UNALLOCATED** --->		0.00	
Subtotal Direct Costs			32,380.00	(32,380.00)	0.00
Indirect Rate			0.00%		0.00%
Indirect Amount			0.00	0.00	0.00
480		TUITION & STIPENDS		0.00	
510		EQUIPMENT (no indirect charges)		0.00	
540		OTHER CAPITAL OUTLAY EXPENSES		0.00	
TOTAL			32,380.00	(32,380.00)	0.00

**** UNALLOCATED FUNDS MAY NOT BE ENCUMBERED OR SPENT. A BUDGET REVISION IS REQUIRED.
A narrative explanation is required for ALL budget revisions.**

DISTRICT APPROVAL

NAME & TITLE

SIGNATURE

DATE

TELEPHONE NUMBER

Narrative Description of Program Budget

(A narrative justification must accompany EACH request for a budget revision)

Grant Recipient: Ketchikan Gateway Borough School District

Grant Number: _____

Grant Title: Heavy Equipment Simulator **Revision Number:** _____

Chart of Accounts Number <i>Required</i>	Account Title	Budget Amount TOTAL	Narrative Description Please include a COMPLETE description of each line item. Budget revisions must include a justification for each change including the impact on the program originally approved.
310	CERTIFICATED SALARIES		- \$2,000 supports Extra Duty Pay for the Heavy Equipment Simulator teacher's vital role in guiding the process of ordering simulator and to do a deep dive to keep the simulator to run.
320	NON-CERTIFICATED SALARIES		-
360	EMPLOYEE BENEFITS		- The program budget incorporates employee benefits, covering 1.45% for Medicare and 12.56% for the Teacher Retirement System (TRS). These allocations guarantee comprehensive coverage and retirement benefits, fostering a supportive work environment.
390	TRANSPORTATION COSTS		-
410	PROFESSIONAL & TECHNICAL		-
420	STAFF TRAVEL		-
425	STUDENT TRAVEL		-
430	UTILITY SERVICES		-
440	OTHER PURCHASED SERVICES		-
450	SUPPLIES/MATERIALS/MEDIA		- The budget for three simulators at Ketchikan High School - Heavy Equipment (\$15,777), Forklift (\$12,655), and Backhoe Loader (\$13,555. structured to enhance the educational experience. The Heavy Equipment Simulator, empowers students with practical skills in heavy machinery operation.
490	OTHER EXPENSES (Dues & Fees)		-
480	TUITION & STIPENDS		-
510	Equipment		-
540	Other Capital Outlay Expenses		-

Copy and attach additional pages as needed.