



## **Request For Bids** **Heavy Equipment Simulator**

The School District of the City of Saginaw is currently requesting bids for a Heavy Equipment Simulator that meets or exceeds the specifications noted below. This simulator is to be used at the Saginaw Career Complex, which is a county-wide career and technical education facility. You can contact the Saginaw Career Complex Principal, Josh Little at the phone number and email listed below for questions regarding these specifications.

Josh Little  
(989)399-6150  
[jlittle@spsd.net](mailto:jlittle@spsd.net)

All bids must be sealed and submitted to:  
School District of the City of Saginaw  
RE: SCC Heavy Equipment Simulator Bid  
550 Millard St.  
Saginaw, MI 48607

All Bids are due by 2:00 PM on Friday March 22nd at which time there will be a public opening. No late bids will be accepted. The school district reserves the right to refuse any bid that does not meet the desired specifications or for any other reason. Electronic Bids will be accepted but must include the Iran Business and Familial Disclosure forms with legible notaries as required.

### **Minimum Specifications**

Heavy Equipment Simulator with a Pivoting 5-display system to accommodate various simulations Field of View (FOV) needs. Must provide a minimum FOV of 100°x50° and 50°x100° (by rotation)

Non-Scripted; Physics based simulation, which also simulates the hydraulic system and diesel engine of the machine. Distinct ability to demonstrate/test the effect of the hydraulic engine simulation. Critical for real learning and avoidance of negative training, and provides real equipment movement.

Full powertrain simulation: Transmission, torque converter, axles, differential, etc. Hot-Swappable & Inter-changeable levers, joy-sticks, pedals and steering wheel controls.

Multi-functionality. MUST INCLUDE: Mobile Crane, Excavator, Skid Steer and Forklift.

Modularity: Ability to train on multiple lifting and earthwork systems on single platform

Scalability: Ability to add/expand systems to institutions needs at any time.

Interconnect-ability: Crew based training & Tandem Operations available.

Change & modify weather/conditions replicating real life weather conditions

Maintenance and Support plan that entitles customers to all software upgrades. Continuously evolving, improving software, and replacing simulator computers every 3 Years. Ongoing software updates provided

Support ISO/SAE control path via push-button

Multiple units with nighttime operation; including working lights from the vehicle.

ISO 9001 certified company

Instructor Station with ability to observe/fly around a 3D view of the work environment. Instructors use of an avatar to walk around in and interact with the work environment, Instructor Station collects student performance indicators in a database which allows instructor to review Student performance, generate reports, etc. at any time.

Systems include quick connect for excavator, bucket, fork and boom

Simulation of fuel, power and torque consumption