



Minnesota  
STATE COLLEGES  
& UNIVERSITIES

DISTRICT 8

PROJECT/REQUEST

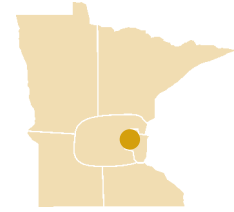
LOCATION

## Pine Technical College

Pine City

## Corrosion Training Simulation Program

\$3,900,000



### Project at a Glance

- Develop expanded and enhanced corrosion training simulations in conjunction with the Office of the Secretary of Defense Corrosion Policy and Oversight of the U.S. Department of Defense
- Build on the expertise of the Johnson Simulation Center at Pine Technical College in development and delivery of computer simulation for education and training
- Identify and set priorities for the most cost-effective and important subject areas amenable to this technology

### Project Description

Corrosion is an immense problem for the U.S. Department of Defense, costing an estimated \$20 billion per year. U.S. Code 2228 requires the Department of Defense to develop and implement a long-term strategy to address the corrosion of its equipment and infrastructure.

A key element in this project is the implementation of pragmatic training tools to assist those making purchasing and maintenance decisions to mitigate or prevent corrosion. Simulation and serious game training tools created by the

Johnson Simulation Center at Pine Technical College are a valuable and effective approach to this training challenge.

The Johnson Simulation Center is developing two serious game training simulations for the Department of Defense, including PainterTrainer for the Iowa National Guard and Cathodic Protection Mini-Game for the department's Office of the Secretary of Defense Corrosion Policy and Oversight. These simulations and others that will be selected for relevance and applicability will be developed

to meet existing Department of Defense corrosion training needs and minimize reliance on expensive centralized skills training. Corrosion control and mitigation skills will be learned more quickly and effectively, and acquisition officer skill levels will be kept at the highest-possible levels through frequent practice.

Johnson Simulation Center staff members have extensive experience in game development, including two other Department of Defense projects, making the center the ideal choice for expanding and enhancing current efforts.



*Developing corrosion training simulations will meet existing needs and will minimize the reliance on expensive centralized skills training.*

The Johnson Simulation Center proposes to further develop corrosion prevention and control training simulations to meet the Department of Defense training requirements and military specifications. They will be developed under the direction and guidance of the program director for the Office of the Secretary of Defense Corrosion Policy and Oversight.

**Participating Institution:**

Pine Technical College  
www.pinetech.edu  
President Robert Musgrove  
Phone: (320) 629-5120

**Project Contact:**

John Heckman  
Director, Johnson Center  
for Virtual Reality  
Pine Technical College  
www.jcvr.org  
Phone: (320) 629-5143  
Fax: (320) 629-5101  
heckman@pinetech.edu



**Minnesota**  
STATE COLLEGES  
& UNIVERSITIES

WELLS FARGO PLACE  
30 7th St. E., Suite 350  
ST. PAUL, MN 55101-7804

ph 651.296.8012  
fx 651.297.5550  
www.mnscu.edu

The Minnesota State Colleges and Universities system is an Equal Opportunity employer and educator.