

UIS Green Project Letter of Intent: Step 1

To complete your Green Project Letter of Intent, download this word document and type all answers to the questions below. Save your completed word document as a new file.

Once completed and saved to your device, return to the Green Projects website at <http://www.uis.edu/greenprojects/get-involved/>

Click the hyperlink titled, ***“Submit your completed UIS Green Project LOI”***
This can be found under **Step 1** of the “Submit a Green Project Proposal” section.

You will be redirected to an external WebQ. Upload your completed application by the deadline which can be found in the **“Timeline”** section of the Green Projects website.

If you have any questions regarding the application or submission process, please contact us at greenprojects@uis.edu.

Project Name: Lighting Track Replacement for the UIS Visual Arts Gallery

Contact Information:

Project Team

Name	UIS Student/Faculty/Staff & Department (or Office)	UIS Email	Phone #
Bella Szabo	Staff – Visual Arts	iszab2@uis.edu	217-206-6506
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Organization/Affiliation: UIS Visual Arts Gallery

Project Information:

Please provide a brief description of the project. What are the goals and the desired outcomes of the project?

The UIS Visual Arts Gallery has resided in its current location in the Health and Sciences Building (Room 201) since 1992. The original track lighting system that was installed at the time remains -- thirty-one years later. Track lighting systems that are over twenty years old are notoriously inefficient, environmentally hazardous, and even dangerous. Our goal is to replace the existing track system with a much more eco-friendly and sustainable system that aligns with practices in energy conservation and sustainability.

The existing (and original) track relies on halogen light bulbs that consume more energy and produce more heat than contemporary LED alternatives. Halogen lights are a type of incandescent light bulb that uses halogen gas in order to generate light. The result is that these bulbs are much hotter than LED bulbs. LED bulbs have been shown to last 5 to 10 times longer than halogen lights, which ends up cutting replacement costs – and because they don't have to be replaced as often, LED lights are significantly better for the environment than halogen lights because they cut the number of bulbs that end up in landfills. Using LEDs instead of halogens also assists in cutting greenhouse emissions by using less power-intensive lighting. LEDs ease the demand on the power grid, thereby contributing to less usage of fossil fuels. We hope to install a new track that relies on LED bulbs that will use roughly 75% less energy than the halogen lights. We also plan to switch from a two-circuit track to single-circuit with integrated dimmers, which are measures to further conserve energy.

Roughly 70 ft. of track are installed to provide lighting for exhibitions, and the track houses moveable and adjustable light fixtures. Between 45 and 50 fixtures are necessary to light each exhibition in the current configuration. The constant removal and replacement of light fixtures along the track over the last thirty years has caused visible and serious damage. There are areas of the track that will not “accept” the light fixture; these end up serving as dead areas of useless track altogether. At times, inserting a fixture will cause an entire section of track to stop working. There are tricks, such as tapping the end of the track with a wooden broom handle, that might get the track to pop back on – but most of the time we are reliant on the UIS electricians who charge us for frequent upkeep visits to get the track operating again. These seem to be short-term fixes for a track that can't keep up with the demands placed on it by the fixtures themselves. Halogen bulbs are compatible with the fixtures – but because of the unhealthy function of the track, the bulbs are overburdened and burn out at a surprisingly excessive rate. We are constantly restocking and replacing halogen lights for the fixtures, creating waste and incurring needless expenses. Our goal is to replace all the old light fixtures, tracks, and bulbs with 55 new dimmable light fixtures/heads, 50 LED bulbs with a 25° flood, 5 LED bulbs with a 50° flood, four 8' tracks, and five 12' tracks. Replacing lighting track system will provide a sustainable structure that drastically minimizes damage to the environment.

Please describe why this project matters to you and how it relates to sustainability.

This project has become a top priority of the Visual Arts Gallery as we have witnessed firsthand the deterioration of the existing/original track and the constant stream of energy waste.

Lighting is an essential feature of any art gallery; good lighting can enhance the viewing experience and even bring artwork to life. Halogen lights change color as they start to burn out and cast a yellow hue on artwork that is being exhibited. This further accelerates the need to replace before they burn out. With poor or inadequate lighting, we also risk our reputation as a professional institutional gallery.

This proposed project helps the university in its efforts to become more sustainable and eco-friendly by transitioning to LED's that use less energy and emit little to no heat and diminished the impact on the power grid and ultimately, expenditure of fossil fuels. A new track is essential and will allow the UIS Visual Arts Gallery to honor its mission as a public-facing exhibition program that showcases local, regional, national, and even international artists – and its very own students and faculty.

Where will the project be located?

HSB 201 – Visual Arts Gallery

Please provide a brief summary of how students will be involved in or affected by the project:

The UIS Visual Arts Gallery is a teaching gallery and educational space for students at UIS. Our exhibitions and installations are intended to serve as parallel classrooms and can be used to supplement courses through object-based inquiry, research, and learning. Our exhibitions are highly interdisciplinary and provide strong crossovers with other disciplines throughout campus. A new lighting system will help us maintain the gallery as a learning laboratory and as a professional and contemporary facility on campus.

Additionally, seniors from Visual Arts exhibit together every spring at the gallery. The lighting track is a key component in their Professional Skills course studies, which is the capstone for Visual Arts. As a teaching gallery, the students learn proper lighting techniques during the exhibition's installation. Providing an updated and **safe** track for them to learn with will support their future careers as professionals in the field. A new lighting system will also allow us to showcase their artwork in a professional context. Students will document their work in the exhibit for future proposals and applications, and proper lighting will ensure that they emerge with the best possible portfolio of images.

Please provide a brief summary of the project timeline (Most approved projects are proposed in the Fall and implemented in the Spring)

We have already obtained a quote for this project through Facilities. They will begin the process by ordering parts and materials, which take approximately one month. An estimated two-month period will be necessary to remove the existing track and to install the new track. If approved, we could have this project completed by the end of Spring 2024.

Please provide a brief itemized breakdown of the funds needed.

Below, you will find a copy of the estimate that was provided by facilities. As of June 2, 2023, the full cost of the project is \$6,692.05, which includes the cost of parts and labor.

Do you have any suggestions for how we could measure the success of this project?

The success could be measured in tracking the amount of LED replacement bulbs purchased to compare to previous years of Halogen bulbs. Also, if there is a way to view how much electricity HSB 201 uses then a comparison of years prior can help measure the success.

Additional comments:

Any additional comments/relevant information about the project proposal

University Of Illinois Springfield

Facilities and Services Project Worksheet

23_06_02

Project Name: UIS Gallery Lighting Upgrade

Project Number: TBD

Building or Location: HSB

Requester: Isabella Szabo

Project Manager: John Grice

Scope of Work:

Remove existing track lighting, install new lighting reviewed with Matt D. in slightly different configuration. Patch and paint.

Financials

CFOP:

Materials Brief Description:

Lighting, drywall materials and paint

Contractors Brief Description:

Vendors Brief Description:

Schedule Estimated Start:

Estimated Completion:

Jul-Aug

W.O. #	Facilities & Services Trade	Hours	Labor Costs (\$)	Material Costs (\$)	Sub Totals
	Carpenters	6	360	75	\$435.00
	Painters	18	900	160	\$1,060.00
	Electricians	44	2420	2300	\$4,720.00
	Sheetmetal/HVAC		0	0	\$0.00
	Plumber		0	0	\$0.00
	Moving Crew		0	0	\$0.00
	Station Engineers		0	0	\$0.00
	Grounds		0	0	\$0.00
	Laborers		0	0	\$0.00
	Contractor		0	0	\$0.00
	Contractor		0	0	\$0.00
	Construction Contingency			10%	\$621.50
	Project Management			Margin	\$290.55
					\$6,692.05

This number is just an estimate for Departmental Budgeting Purposes. If the project commences, customer unit will only be charged actual costs for construction/renovation completion which may be higher or lower than the estimated amount. The contingency amount should cover most circumstances; however, customer directed changes enacted during construction can greatly effect final invoicing.

THANK YOU FOR YOUR BUSINESS!

Requester Approver Name (Printed)