

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: Water Catchment System

Contact Information:

Project Team

| <i>Name</i> | <i>UIS Student/Faculty/Staff & Department (or Office)</i> | <i>UIS Email</i> | <i>Phone #</i> |
|-------------|---|------------------|----------------|
| Ellyn Baker | ENS | Ebake2@uis.edu | 217-206-5762 |
| | | | |
| | | | |
| | | | |
| | | | |

Organization/Affiliation: S.A.G.E, Bio Club

Project Information:

Please provide a brief description of the project. What are the goals and the desired outcomes of the project?
Please address all of the above items including concrete examples of the desired outcomes.

This is a proposal for a rainwater catchment system for an on-campus building. I will need help from the Sustainability Projects Coordinators and UIS staff/faculty members to determine the best location (Student Union, TRAC, UHB, or somewhere else... the Student Union green roof could potentially cause clogs) for the system. Harvested rain water would be utilized by UIS community members, groundskeepers, garden club, bio club, and others for various projects including landscaping, greenhouse gardening, and outdoor gardening. A rain catchment system would decrease our total campus water consumption, thus reducing our water utility bill and promoting resource conservation and water recycling.

Please describe why this project matters to you and how it relates to sustainability.
How will it aid in promoting the sustainability culture on campus? Describe your long-term vision.

Rainwater harvesting is a technique used for harvesting, storing, and reusing rain water for landscape irrigation and other uses. The Blue Barrel system will be eye-catching to UIS community members and visitors alike. Educational signage near the system would help educate viewers on the purpose and benefits of recycling rain water. This will decrease our water bill and help decrease storm water run-off, thus reducing local flooding subsequent damage.

Where will the project be located?

I need input from the Green Fee Committee and partners before deciding on a location. Any building on campus with gutters would potentially be an option. A building with a larger roof surface area such as the Student Union, TRAC, PAC, UHB, or Brooken's Library would be ideal.

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

Are there any relevant opportunities for student or multidisciplinary involvement with your project?

The Blue Barrel Rainwater Catchment System will be eye-catching to UIS community members and visitors. With this being more of a DIY installation project, interested students could be involved in the set-up which could be an opportunity for an educational presentation on the benefits of rain water catchment. We could give out information on how to set one up at home (off-campus). Water collected could potentially be utilized by students as well as groundskeepers for various projects.

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

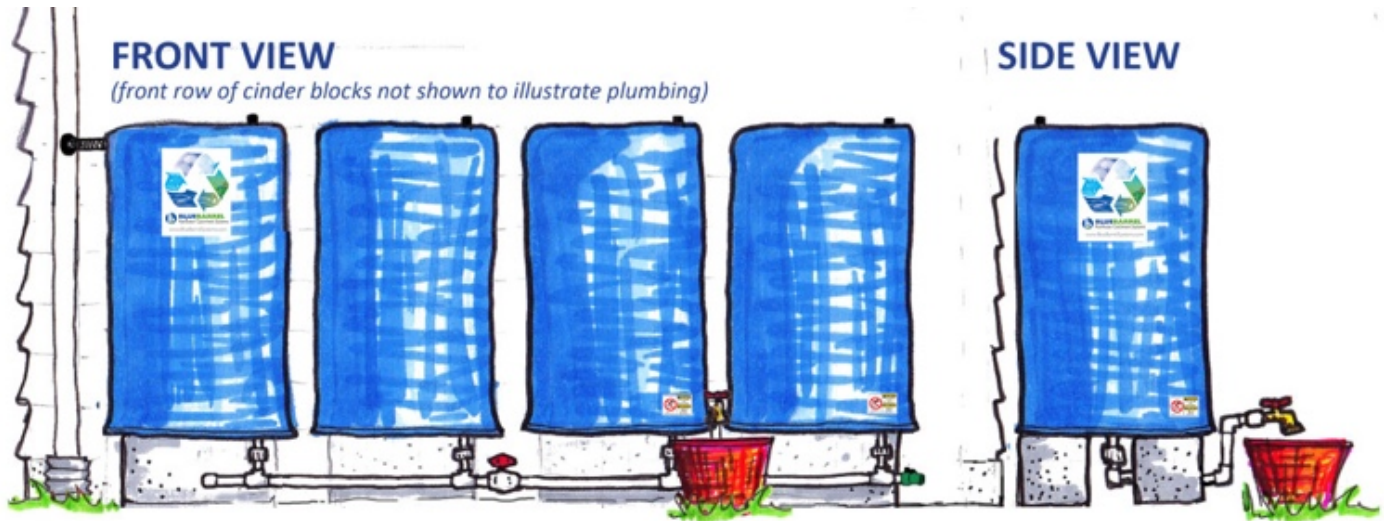
A brief summary of total project timeline and key milestones

We would purchase and install the rain water catchment system in the Spring, 2018. Additional barrels could be purchased as needed.

Please provide a brief itemized breakdown of the funds needed.

We will help you factor in the cost of labor and installation. If you have a plan for where you would like to purchase supplies from, provide it here and include a URL link to each item on the desired retailer's website.

Option: DIY Blue Barrel Rainwater Catchment System (<https://www.bluebarrelsystems.com/services/for-schools/>)



The BlueBarrel Rainwater Catchment System™ starts with a downspout diverter that takes water from your existing downspout into your barrels, and sends overflow down the normal course of the downspout (automatically!) when barrels are full.

Each system also includes a no-kink spigot and a drain valve to connect to a drip line or soaker hose, as well as code-required inlet screening, screened vents, and non-potable labling. Our unique under-plumbed design has many advantages (read below for details)!

Visit our Online Store to order recycled barrels and customize your DIY RainKit™ with all the parts for building your very own BlueBarrel System - you choose the number of barrels!

Itemized Budget: (Breakdown available at <https://www.bluebarrelsystems.com/pricing/> , “online store”)

4-Barrel System

| | |
|----------------------------|---|
| (55-gallon Barrels): | \$259.07 |
| Cinderblocks: | \$?? |
| Tank Gauge: | \$34.49 per barrel |
| Leaf Eater: | \$36.89 |
| Longer Inlet Hose: | \$3.25 per foot |
| Downspout Diverter: | \$26.95 per downspout, rectangular or round |
| Winter cover to Downspout: | \$ 8.50 |
| Spigot Assembly: | \$14.75 (order extras for multi-access) |
| Drain Assembly: | \$7.99, (order extras for multi ground-level outlets) |
| Educational signage: | \$?? |

Optional

| | |
|--|---------|
| Drip irrigation kit and filter for nearby garden: | \$45.00 |
| Hose: | \$23.99 |
| Irrigation timer | \$40.00 |

Tools

| | |
|---------------------------------|---------|
| Bung Wrench: | \$13.00 |
| Pipe Cutter: | \$13.00 |
| 5/8 Forstner bit | \$8.00 |
| 7/8 Spade bit | \$5.00 |
| 1 ½ Hole Saw | \$8.00 |
| 2 1/8 Hole Saw (For Plastic) | \$9.00 |
| 2 1/8 Hole Saw (For Metal) | \$22.48 |

Estimated total cost: **Approximately \$575**

- PROS
 - Customizable System, can purchase fewer barrels now and more in the future as needed
 - Option to purchase recycled barrels from local exchange
 - Plumbed underneath so that you can drain every inch of capacity—no pesky water festering in the bottom of your barrels at the end of the season!
 - Designed so that all barrels maintain a level and function as one larger tank
 - No upper limit to expansion
 - Low-price
- CONS
 - Blue barrels are conspicuous.
 - DIY (may be a pro or a con, depending on who you ask)

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

We can generally monitor the amount of rainwater harvested by the system and then decide if we need to purchase more barrels depending on how often they fill.

Additional comments:

Any additional comments/relevant information about the project proposal