Rooftop Rainwater Collection System on Foisie Innovation Studio

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The Problem
Runoff is destructive toward cities and ecosystems alike. The excess water floods sewer systems and pollutes local waterways.

Methods
- Interview Elizabeth Tomaszewski
- Find location for system
- Data collection
- Data manipulation
- Specifics of system

Solution
Our solution is a rainwater collection system designed for the rooftop of the new Foisie Innovation Studio.

Data
Residential Water Usage

- Toilets: 27%
- Other: 31%
- Showering: 42%

- 48 in of rainfall per year
- 48,125 ft\(^3\) of water potentially collected

Next Steps
- Water quality laws
- Filtration research
- Cost vs Benefit
- Implementation?

Project Goal
Find a feasible way to cut down the amount of runoff on the WPI campus through rooftop rainwater collection.

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