

Developing a Raspberry Pi-based freezer monitoring solution for the NIH

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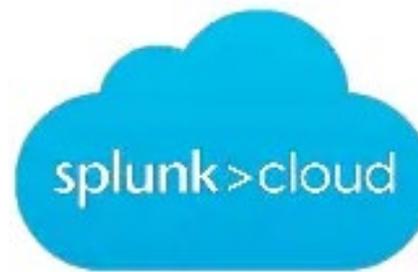
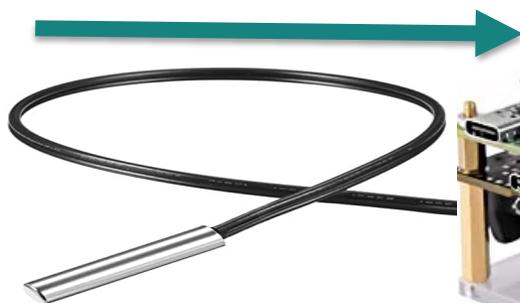
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Biological/Chemical Samples



Real-Time Data Acquisition

- Temperature
- Humidity
- Other



Data Streamed for Analytics

Reports and Notifications to Users

Top: Raspberry PI

Bottom: Uninterruptible Power Supply (UPS)



Thousands of Freezers (~5800) on Multiple Campuses