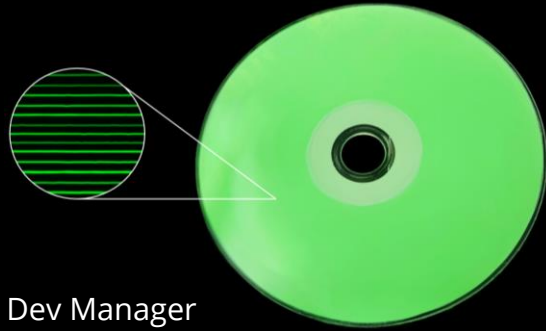


## CONTACT INFORMATION

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## CAPABILITY DESCRIPTION

**“Data centers offer a tremendous opportunity for cost and energy savings”**

- High-capacity, low-cost **data storage** solution
- Requires **zero power or environmental cooling** for written data storage
- Exponential increase in **effectiveness** of DoE data storage
- **Secure** data storage: air gap and WORM to prevent unauthorized access
- Maintain integrity of data for **+100 years**
- Mil Std. 810 testing in process. Impervious to **EMP**, salt water, high temps
- Multi-generational roadmap of **backwards compatible** storage products

## DESCRIPTION

### **Technology/Research Overview:**

- Proprietary photonic film manufacturing process
- High-capacity optical storage discs.
- Advanced polymer extrusion techniques
- Development of new nanomaterials
- Development of advanced confocal pickup unit (OPU)
- Invented at Center for Layered Polymer Systems at Case Western Reserve University
- All development venture funded to-date.

### **Stage of Development:**

TRL – 4 Disc and Drive prototyping. Commercial partnering.

### **Value Proposition:**

Enable the DoE's transformation of data centers to become more green by being more efficient and consuming less power to store large amounts of data.

## REQUIREMENT MATCH AND BENEFIT

- **Requirement Match:** All offices within the DoE requiringx long term data storage to enable more energy efficient storage of data. Currently, Folio Photonics has not been funded or tested by any government organizations.
- **Seeking: End-user advocacy** to help finalize product/market fit. **Beta testing** to accelerate development and deployment. **Funding** to drive development, testing, and scale media manufacturing.
- **Benefit:** Allowing data to become a strategic asset while mitigating the energy and cost burden.
- **TRL: 4**
- **SAM Registration:** Active until Feb. 3<sup>rd</sup>, 2022.
- **CAGE Code:** 6TGC7
- **Business Class:** Small business