

Raytheon

- **Raytheon BBN Technologies**
- **Boulat A. Bash, Ph. D.**
- **Jacob Beal, Ph. D.**
- **Daniel Ellard, Ph. D.**

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- Scalable Molecular Storage Architecture:
- Requirements for data warehousing in many use cases have met and exceeded Exabyte scaling
- Research shows that sequence-controlled polymers (e.g., DNA) offer a possibility of compact, low-power, and inexpensive solutions for storing data at this scale
- However, to our knowledge, current polymer storage demos are limited to tens of MBs
 - Architecture is the key missing piece
- **Raytheon BBN Technologies seeks to rectify this by bridging the gap between hardware, wetware, and software**

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- **Raytheon BBN Technologies leads a wide range of R&D projects that advance the US national interests.**
- **Team expertise:**
 - **Boulat Bash:** information theory and coding
 - **Jacob Beal:** synthetic biology
 - **Daniel Ellard:** operating and distributed systems
- **Raytheon BBN Technology has a proven record in:**
 - Synthetic biology
 - SBOL standards, metrology, design automation
 - Large-scale system design and integration
 - GENI: Internet-scale distributed systems research and education infrastructure
 - NS-CTA: foundational cross-cutting research on network science
 - Collaborations with university and industry partners

Raytheon

- BBN seeks partners who believe in the importance of building integrated scalable architecture for molecular storage.
- We would especially welcome wetware experts and bioengineering experts.



Contact Information

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