



Engineering Research Centers



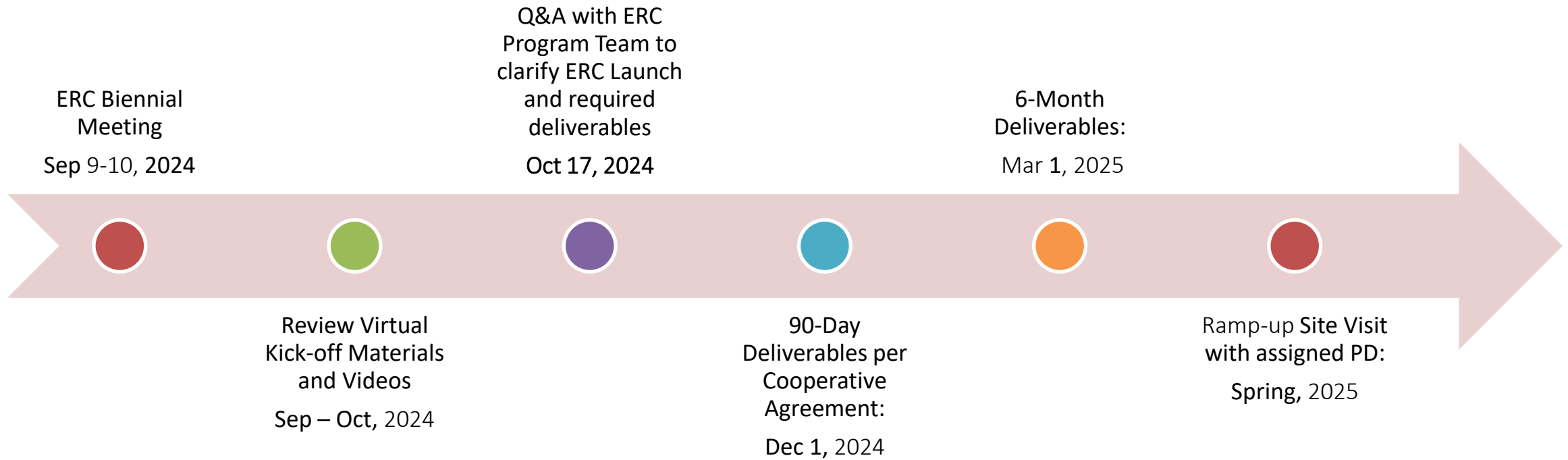
Gen-4 ERC:
Program Overview

NSF 22-580

Kickoff Meeting
October 17, 2024



Year-1 Milestone Schedule





Gen-4 ERC



NSF Working Group Recommendations (Considering NASEM Report)

Convergent Research and Innovation through Inclusive Partnerships and Workforce Development

Emphasizes **societal impact, convergence, stakeholder community, and team formation**

Demonstrable integration of F.C.

Increase award size to max \$6M/year

Planning grant opportunity to enhance convergent team formation



Kickoff Orientation: Three objectives

1. Firm up new concepts
 - Convergence => to win a Gen 4 ERC award, you had to master this concept
 - Societal impact => metrics are easier if one uses logic models
 - Team formation => effective teaming and creating a culture of inclusion have strong overlapping Venn diagrams
 - Stakeholder community => identifying and engaging learning curve
2. Explain Post Award Oversight Process
3. Help you prepare your 90-day deliverables and 6-month deliverables



Pre-Recorded Presentation Index

ERC Foundational components:

- Research
- Engineering Workforce Development
- Innovation Ecosystem
- Diversity and Culture of Inclusion

Logic Model and Evaluation Plan

Infrastructure Management

Center Level Risk Management

Post Award Oversight



90-Day Deliverables

1. Strategic Plan and Logic Model
 2. Evaluation and Assessment plan
 3. Center Governance Model and Organizational Chart
 4. Innovation Ecosystem Membership Agreement
 5. Intellectual Property Policy
 6. Establishment of Charters for Boards, Councils, and Committees
 7. Data Management Plan
 8. Center-Level Risk Management Plan
- Check cooperative agreement for center-specific deliverables



Presentations Assisting Prep of 90- Day Deliverables

ERC Foundational components:

- Research
- Engineering Workforce Development
- Innovation Ecosystem
 - SPI; IP; Member & Institution Agreements
- Diversity and Culture of Inclusion

Logic Model and Evaluation Plan

- Strategic Plan & Logic Model
- Evaluation and assessment plan

Infrastructure and Management

- Center Governance Model and Org Chart
- Data management plan

Center Level Risk management

Post Award Oversight



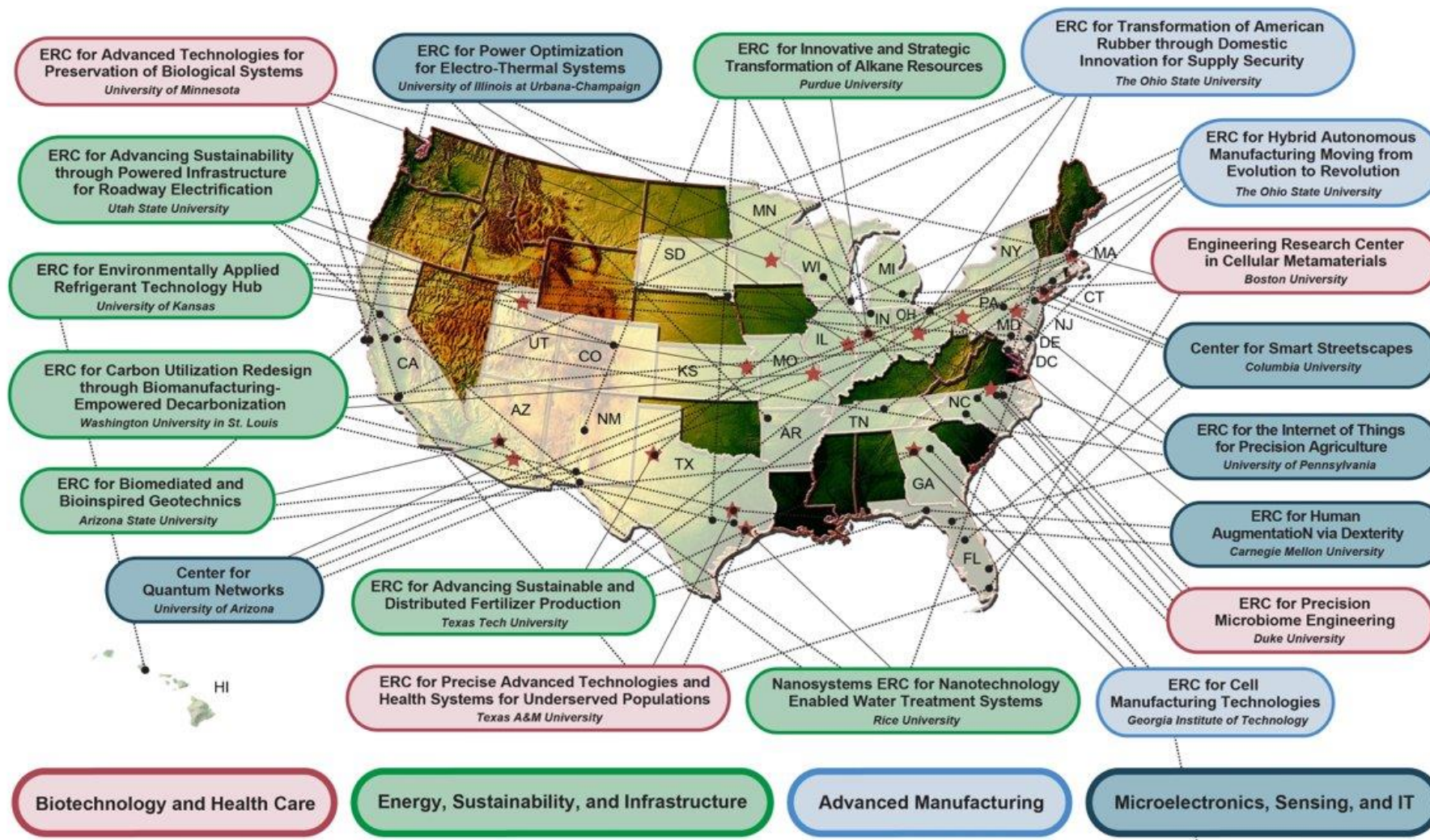
6-Month Requirements

Status report that:

- All ERC Leadership team positions are filled. Time & Effort consistent with their ERC team roles.
- Projects have started with planned synergistic coordination.
- All technology elements (labs, equipment, testbeds) across ERC institutions are in place.



NSF's FY 2024 Engineering Research Centers (Lead institutions★ and core partners)



Note: All centers are multi-university partnerships; university shown is lead institution.

University of Puerto Rico-Mayaguez