

Natura Resources

Deployment of Natura Resources MSR-1 System at Abilene Christian University

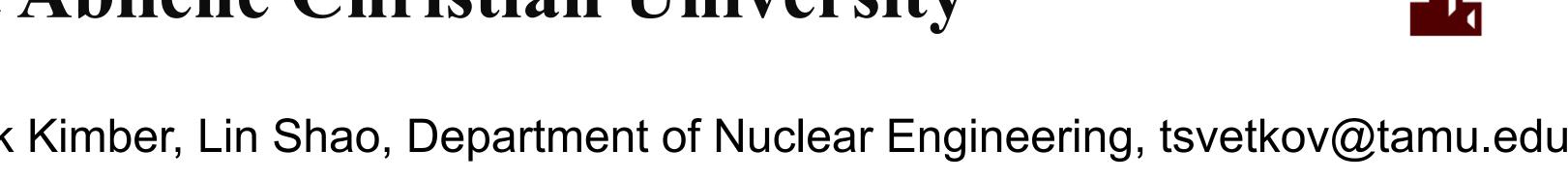


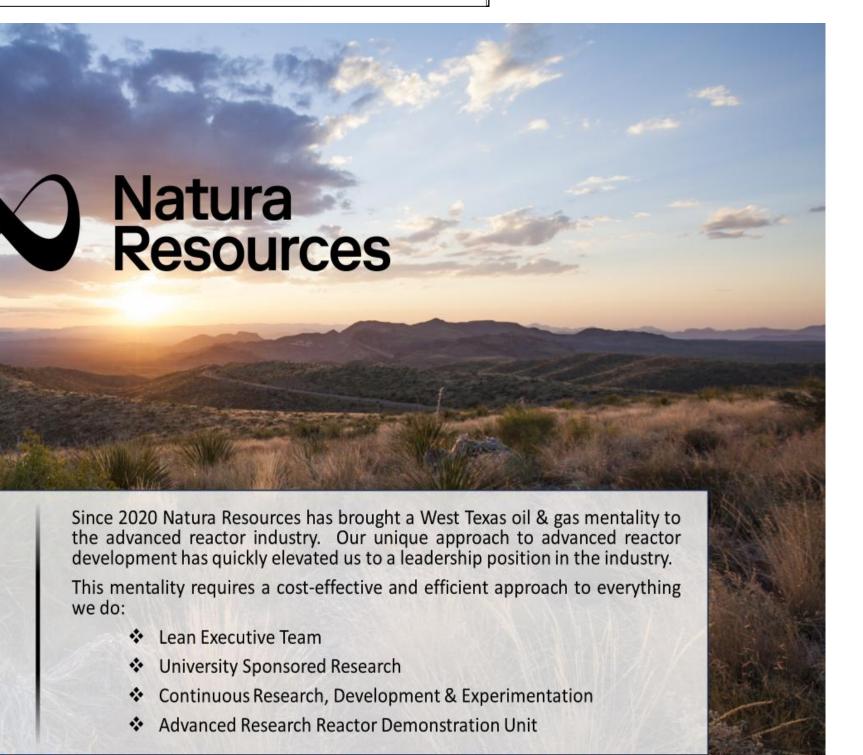


ZACHRY & ABILENE CHRISTIAN

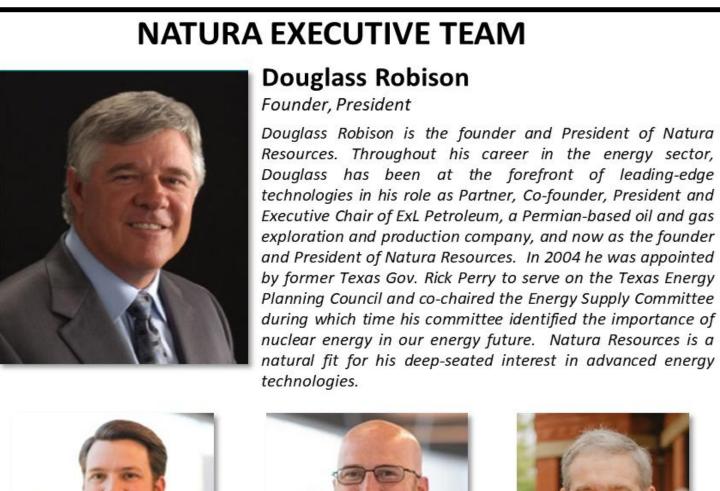


Pavel Tsvetkov, Mark Kimber, Lin Shao, Department of Nuclear Engineering, tsvetkov@tamu.edu





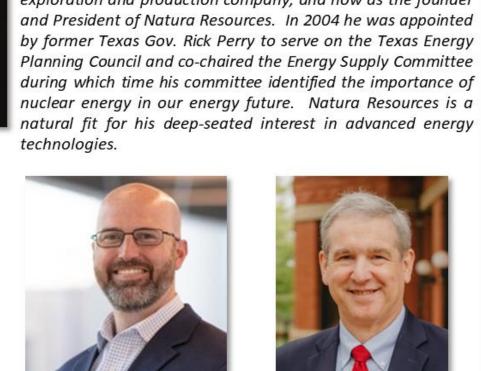
Natura Resources Team



Andrew Harmon

VP of Operations &

Business Development



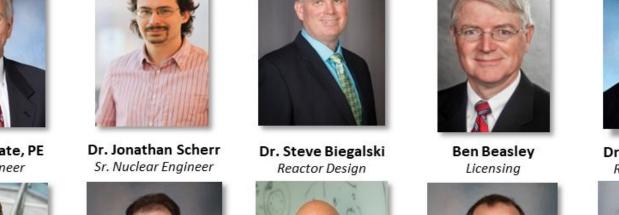
Jordan Robison, PE

VP of Engineering &

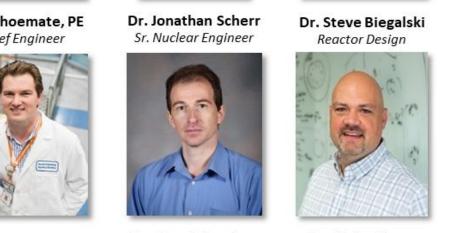
Program Management



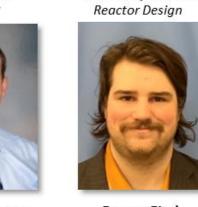




Dr. Kevin Clarno







Project Milestones & Development

Natura Resources Technology Development

Demonstration Reactor - 1 MW+h

Molten Salt Research Reactor (MSRR)

at Abilene Christian University (ACU)

2026

R&D / MSRR

the development of large-scale manufacturing facilities and commodity development/security.

Georgia Institute of Technology

deploying commercial LF-MSRs at scale, to meet the world's energy needs.

University Sponsored Research

TELEDYNE BROWN ENGINEERII

Lead Investigators

Faculty = 4

Total = 13

Undergrad Students = 2

Developing the technologies

and performing analysis

to support MSRs

Industry Expertise

on-time and on-budget

Delivering complex projects

Natura Resources has taken a unique path to developing and deploying MSR technology that reduces costs, schedule and regulatory risk.

FOAK Commercial Deployment

Successful FOAK deployment is made

possible through the data, knowledge,

 $MSR - 250 MW_{th} (100 MW_{e})$

First-of-a-Kind (FOAK)

GEN-IV reactor deployment

NOAK¹

2035

FOAK:

1. With minimal changes to the FOAK design, NOAK deployments can be achieved after 3-5 reactor builds. Full NOAK cost savings will be driven by the capital deployed toward

2030

and experience gained through

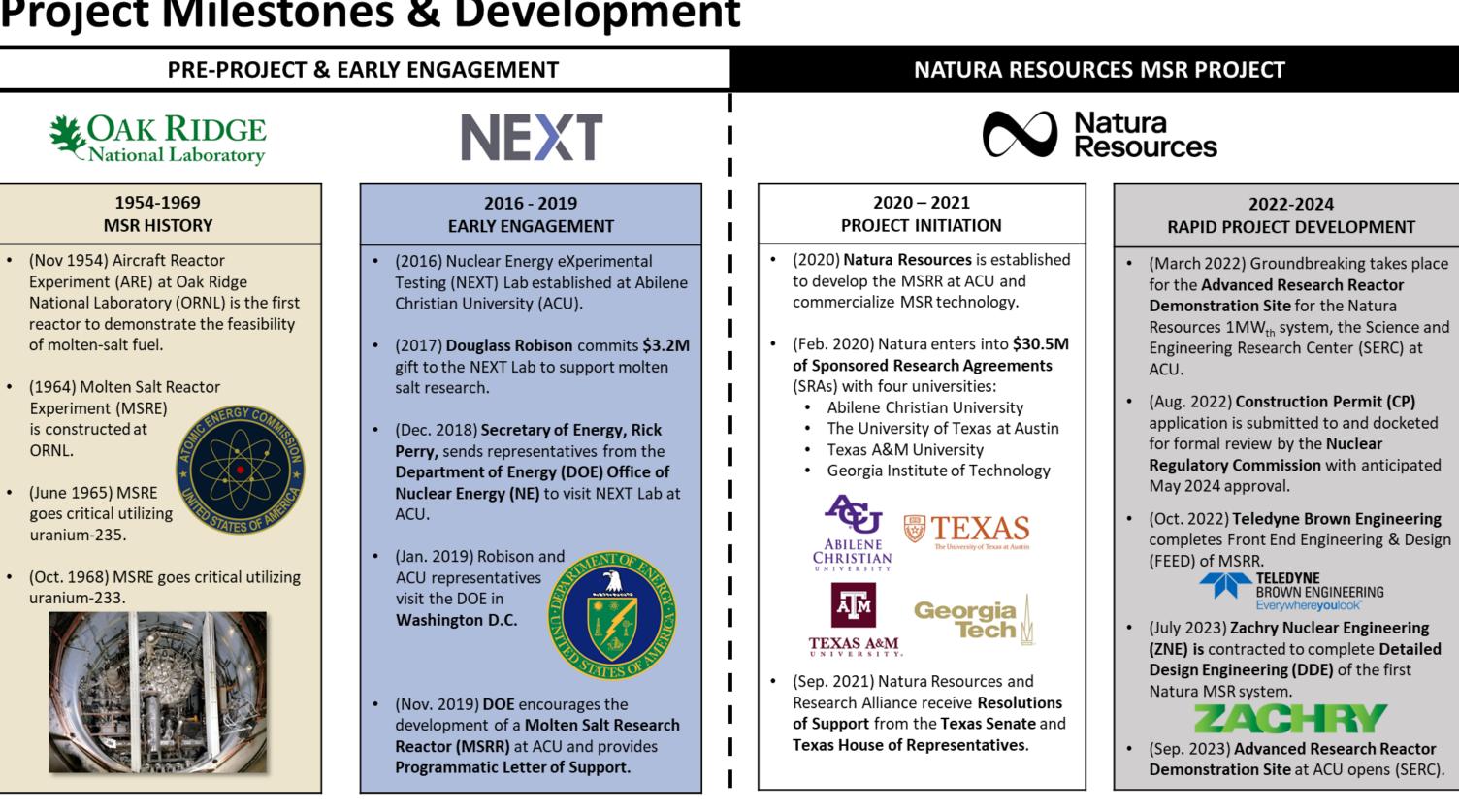
the deployment of

We are on track via the MSRR demonstration reactor to deploy the first GEN-IV advanced reactor in the U.S., and then begin rapidly

We don't need more climate promises.

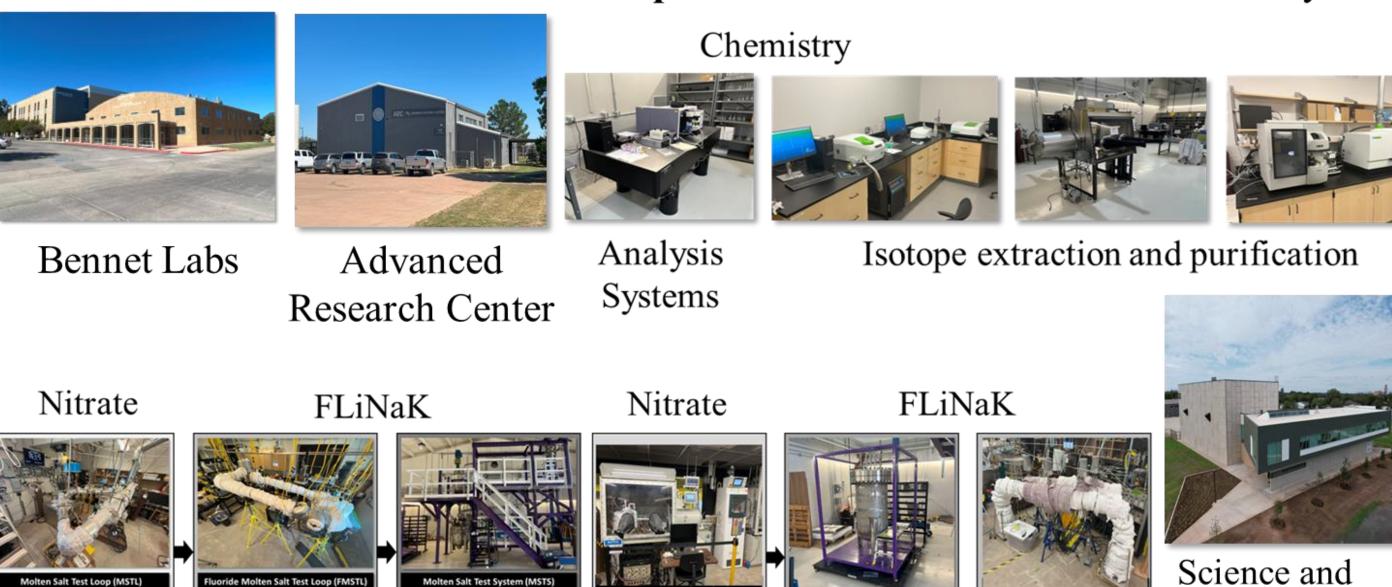
We don't need more paper reactors.

We need PERFORMANCE.





Reactor Design





ride Molten Salt Test Loop (FMSTL)

emperature - 700°C

Volume ~ 5 gallons

Loops

Temperature <200°C

Volume ~ 5 gallons

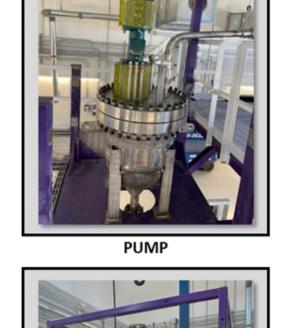
Location ACU (Bennett Labs)

Molten Salt Test System (MS

Volume ~ 50 gallons

Location ACU (ARC Lab)

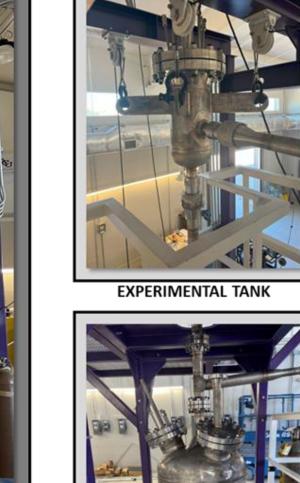
emperature ~ 700°C





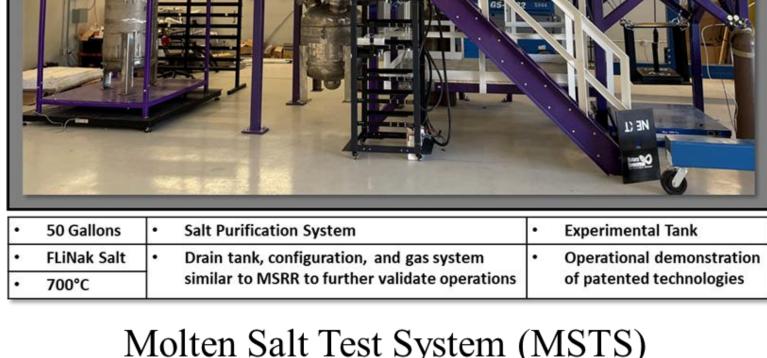
Purification Fluoride salt Salt filters

Purification



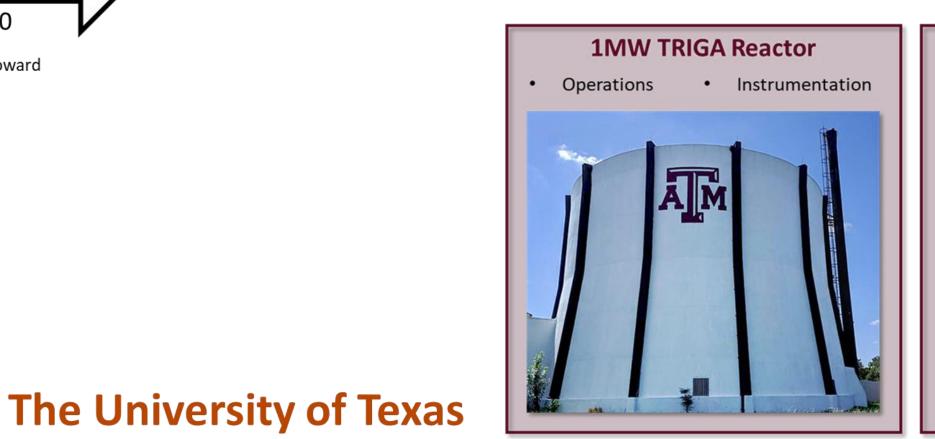
Engineering

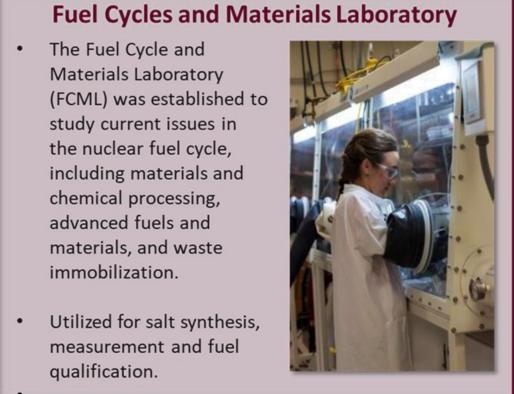
Research Center



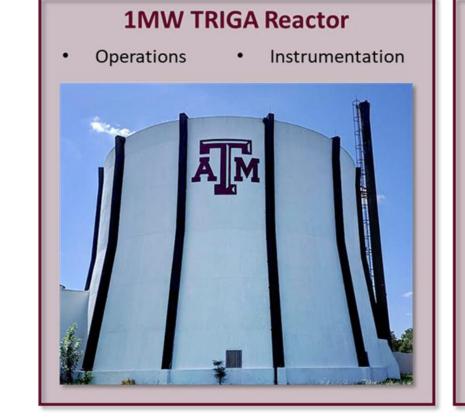
Molten Salt Test System (MSTS)

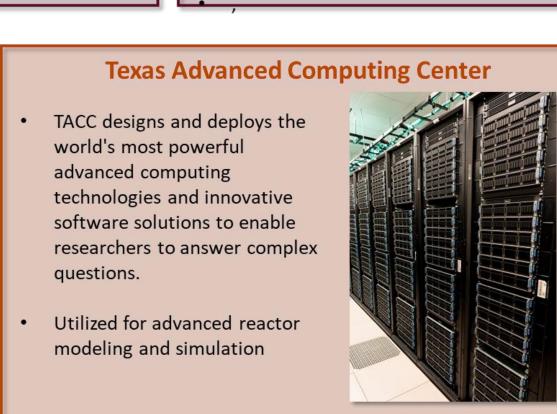
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Lead Investigators

Rapid Deployment

deployed at scale to

meet the world's

energy needs

the LF-MSR will be rapidly

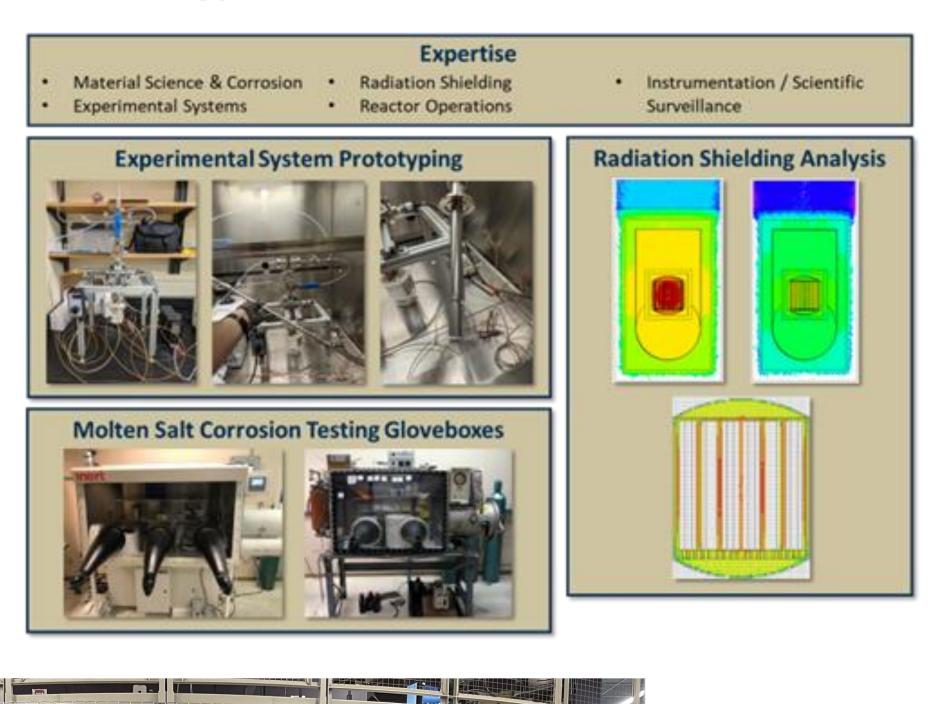
Designed for assembly line manufacturing,

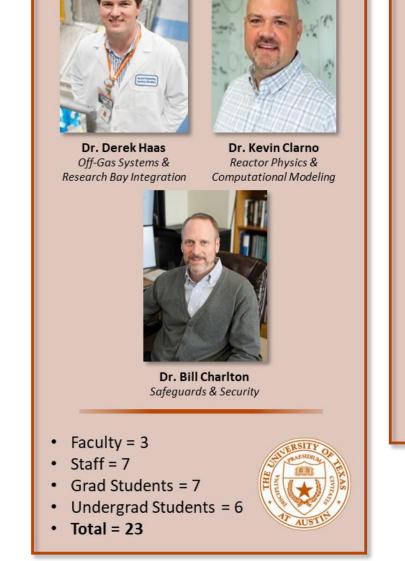
 $MSR - 250 MW_{th} (100 MW_{e})$

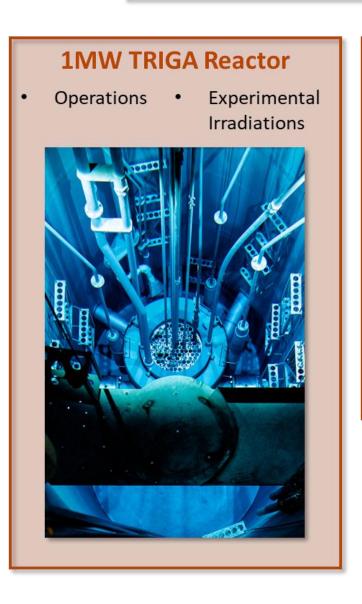
Nth-of-a-Kind (NOAK)

Rapid GEN-IV Reactor Deployment

2040







- Construction permit September 2024
- Planned operation 2026

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