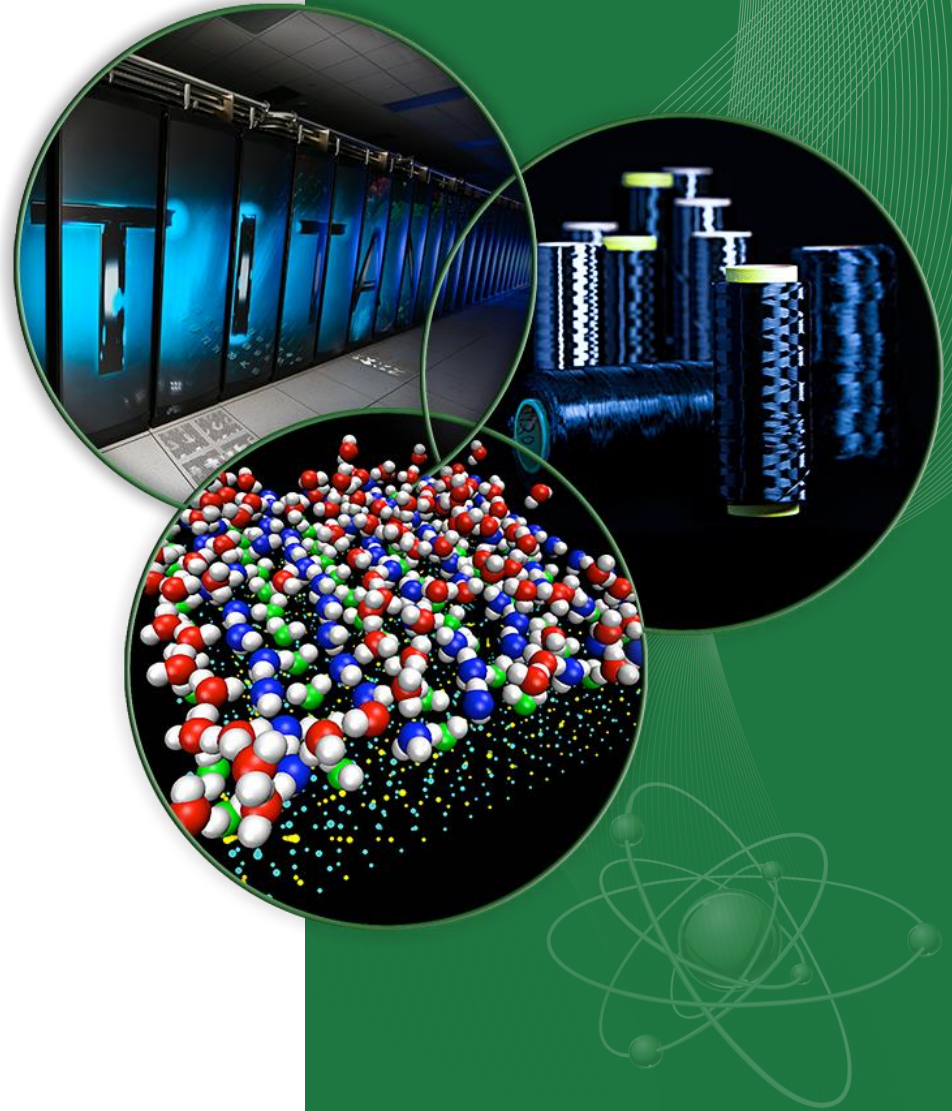


Themes for CVT and ORNL Collaboration

Background for initial discussions

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CVT – ORNL Themes

Treaty Verification¹

- FMCT Challenges
 - IAEA verifications and training
 - Safeguards Lab User Facility
- Future Disarmament
 - 3 NA-22 Dismantlement/Monitoring projects

Data and Techniques²

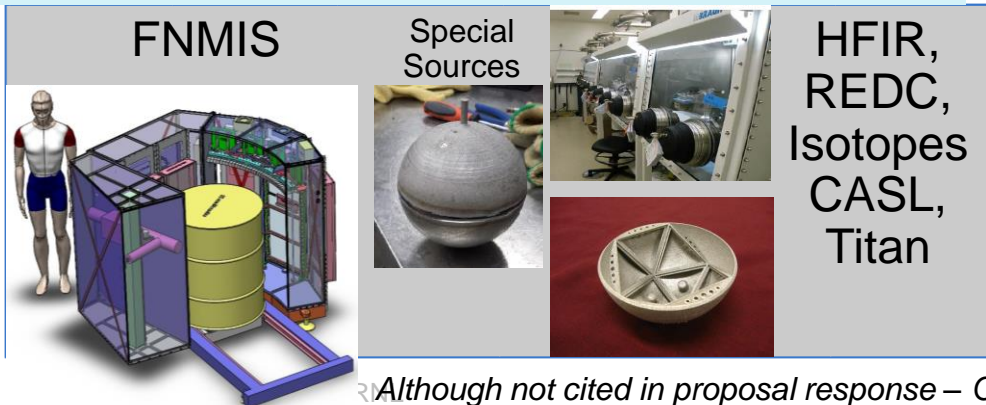
- Physics of Fission
 - 4 NA-22 projects
 - ORNL mission (RSICC, SCALE, Nuclear Data Group)
- Data Acq. for Throughput
 - 3 NA-22 Monitoring projects

Dismantlement Verification⁵

- Radiation Detection Systems
- Simulation Environment
 - 4 NA-22 imaging & systems projects

Safeguards Tools³

- Multiplicity
 - 4 NA-22 projects
 - ORNL mission (RSICC, SCALE, Nuclear Data Group)
- γ imaging
 - ²³³U and RSTD NA-22 projects
 - special isotope mission



¹Although not cited in proposal response – ORNL has resources in radionuclide sensing/signatures⁴ and Big Data²

For Internal Use by the Consortium for Verification Technologies

ORNL Thrust Area POC's

Treaty Verification¹

– FMCT Challenges

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– Future Disarmament

- Michael Wright

– Safeguards Lab

- Chris Pickett

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Data and Techniques²

– Physics of Fission

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– Techniques:

- Stephen Croft (Safeguards)
- Michael Wright (Imaging)

– Big Data

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Dismantlement Verification⁵

– Michael Wright

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Safeguards Tools³

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BACKUP / BACKGROUND / DETAILS