Sandia-UT
FY24 LDRD
Q1 Kick-Off/Info Meeting

UT Team:
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Sandia National Laboratories is a multimission laboratory managed and operated by National Technology & Engineering Solutions of Sandia, LLC, a wholly owned subsidiary of Honeywell International Inc., for the U.S. Department of Energy’s National Nuclear Security Administration under contract DE-NA0003525.
• Welcome and Introductions
• FY24 LDRD Supplemental Awards
• FY24 SUPN LDRD Expectations
• Contracting and Invoicing: Tips and Tricks
• Q&A
SUPN Goals

- Cultivate Strategic & Enduring Institutional Relationships
- Build & Grow Impacts of Research Collaborations
- Stimulate Workforce Development

UT Strategic Engagement Areas

- Microelectronics
- Climate and Energy Security
- Additive Manufacturing
- Radiation Energy and Pulsed Power

Sandia’s Academic Alliance Partner Universities:
Institutional Interfaces

Sandia

Doug Kothe  
Associate Lab Director &  
Chief Research Officer

Justine Johannes  
Associate Lab Director &  
UT Executive Champion

Alex Roesler  
UT Campus Executive

Nadine Miner  
Campus Partnership Manager

Hannah Stangebye  
Partnership Development

Basil Hassan  
Deputy Chief Research Officer

Diane Peebles  
Academic Programs  
Senior Manager

Amanda Dodd  
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Leslie Phinney  
UT Deputy Campus Executive

Brandon Heimer  
UT Deputy Campus Executive

Michael Green  
Administrative Support

Michelle Pang  
UT Recruiting Lead

Nicole Streu  
Recruiting Specialist

Corrine Harvey  
SUPN LDRD  
Financial Lead

UT Austin

Sharon Wood  
Executive Vice President and Provost

Dan Jaffe  
Vice President of Research

Jennifer Lyon-Gardner  
Deputy Vice President for Research

Fernanda Leite  
Associate Dean for Research,  
Cockrell School of Engineering

Karen Willcox  
Director, Oden Institute

Eloisa Acha  
Executive Director Industry  
and Research Relations,  
Cockrell School of Engineering

Sara Hernando  
Assistant Director for Research  
Engagements, Office of the Vice  
President for Research

Bill Charlton  
Faculty Liaison for Sandia  
Partnership, Professor and  
Director for Nuclear Engineering  
Teaching Laboratory
Sandia-funded LDRD Projects at UT

- Sandia and UT Austin have a long history of successful collaborations with Sandia funding numerous research projects each year
- Sandia’s Total SUPN LDRD Investments at UT Austin since 2015 >$21M

FY24 SUPN Funded LDRD Portfolio

- FY24 UT Alliance Partner Budget: $1.1M
- $2M requested
- 12 Supplemental LDRD projects selected: 4 new and 8 continuing
- 11 student researchers engaged so far
<table>
<thead>
<tr>
<th>Index</th>
<th>PO #</th>
<th>Title</th>
<th>Investment Area</th>
<th>Sandia PI</th>
<th>UT Faculty PI</th>
<th>Student Researcher</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>2527297</td>
<td>Deep Learning for seismic inversion to produce rapid, accurate, and high-resolution seismic velocity models</td>
<td>Earth Science</td>
<td>Jennifer Harding</td>
<td>Mrinal Sen, JSG</td>
<td>NEW</td>
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<tr>
<td>2</td>
<td>2538918</td>
<td>Enabling Low-Temperature Sprayed Coatings of Brittle Materials</td>
<td>Materials Science</td>
<td>Thomas Hardin</td>
<td>Desiderio Kovar, ME</td>
<td>NEW</td>
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<tr>
<td>3</td>
<td>2543854</td>
<td>Optimization of Fiber-Reinforced Materials for Lightweighting</td>
<td>Materials Science</td>
<td>Michael Chandross</td>
<td>Filippo Mangolini, ME</td>
<td>NEW</td>
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<tr>
<td>4</td>
<td>None</td>
<td>Discovery of Conductive Inks and Electronic Devices co-Designed with Closed-Loop, Autonomous, Reinforcement Ecosystems (DCI)</td>
<td>Materials Science</td>
<td>Elliott Fowler</td>
<td>John Foster, Petroleum Engr</td>
<td>NEW</td>
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<tr>
<td>5</td>
<td>2302990</td>
<td>Sustainable Bioinspired Harvesting of Rare Earth Materials</td>
<td>Materials Science</td>
<td>Erik Spoerke</td>
<td>Ren Pengyu, Biomed Engr</td>
<td>Elizabeth Wait</td>
</tr>
<tr>
<td>6</td>
<td>2475543</td>
<td>Using Distributed Acoustic and Temperature Sensing (DATS) To Characterize The Rapidly Changing Nearshore Arctic Ocean</td>
<td>Earth Science</td>
<td>Adrian Stanciu</td>
<td>Matt Malkowski, JSG</td>
<td>Isabel Held (student), Corel Olariu (Research Scientist)</td>
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<tr>
<td>7</td>
<td>2317831</td>
<td>Nonlinear Dendritic Processing in Next-Generation Neuromorphic Architectures</td>
<td>Computing and Information Sciences</td>
<td>Frances Chance</td>
<td>Andreas Gerstlauer, ECE</td>
<td>James Boyle</td>
</tr>
<tr>
<td>9</td>
<td>2427269</td>
<td>Ultra-Low SWaP All-Acoustic Signal Processing to Reconfigure Radio Frequency Front Ends in Contested Environments</td>
<td>National Security Programs</td>
<td>Lisa Hackett</td>
<td>Ruochen Lu, ECE</td>
<td>Jack Kramer</td>
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<tr>
<td>10</td>
<td>2408122</td>
<td>Interfacial modifications to improve performance and safety in rechargeable lithium metal batteries</td>
<td>Energy and Homeland Security/Truman Fellowship</td>
<td>Josefine McBrayer</td>
<td>David Mitlin, ME</td>
<td>Garrett Michalke</td>
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<tr>
<td>11</td>
<td>2432309</td>
<td>Miniature, low-power, universal greenhouse gas sensor</td>
<td>Energy and Homeland Security</td>
<td>Philip Miller</td>
<td>Tanya Hutter, ME</td>
<td>Aminur Chowdhury; David King; Sahana Vinayak</td>
</tr>
<tr>
<td>12</td>
<td>2422707</td>
<td>Coupled Hydro-thermo-biogeochemical modeling For Predicting Arctic Carbon Emissions (CH4PACE)</td>
<td>Earth Science</td>
<td>David Fukuyama</td>
<td>Peter Flemings, JSG</td>
<td>Tanner Mills</td>
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</table>
Goal of these projects is to enhance the Sandia-UT partnership resulting in enduring collaborations. 
→ These projects are considered “Seeds” to facilitate joint research, leading eventually to successful joint external proposals and wins!

Overarching UT Supplemental LDRD Expectations

• Sandia PIs are responsible for ensuring University invoicing is on track - straight line spending encouraged
• Contact Campus Partnership Manager for problems/issues as soon as they arise – we can assist!
• Let us know about your successes (publications, milestones achieved, break-throughs, patents, etc.) and team visits (to Sandia or UT) throughout the year
• Consider hiring LDRD students for Sandia internships, postdoc positions and permanent hire positions
• Quarterly Meetings For FY24:
  • Q1: LDRD Kick off meeting – Today!
  • Q2: *NEW in FY24* Sandia Field Day and UT LDRD Student Poster Session
    • UT Faculty and Students travel to Sandia to participate along with Sandia PIs
    • Technical Sessions, Tours, Student *Flash* Talks and Student Poster Session
    • Project Budgets will be supplemented to offset travel and per diem costs
    • Dates: March 21 and 22, 2024
  • Q3: Sandia PI, UT Faculty meet with SUPN UT Team to review progress, successes and invoicing
  • Q4: Meet with SUPN UT Team: Summary of accomplishments, next steps, and report on final spending
• Contract funding is tied to Sandia’s Fiscal Year (October 1st – September 30th)
• Sandia PIs are the Sandia Delegated Representative (SDR) and are responsible for ensuring invoicing is on track
• We strongly urge invoices to be submitted promptly, and monthly throughout the year (don’t back load, or you may inadvertently leave $s unspent)
• Sandia PIs should communicate to the CPM team if they do not receive monthly invoices starting in January at the latest.
• Funding not intended for major equipment purchases – equipment >$5k must be returned to Sandia at project end
• Computer purchases, if needed, must be made by Sandia and equipment returned to Sandia at project end
• Beware: Foreign travel must be approved by DOE, and takes months!

Sandia Contract and Invoicing Assistance
• Sandia University Partnership Supplemental LDRD Invoicing Issue Assistance
  • Corrine Harvey, Business Mgmt Professional, crharve@sandia.gov
• Inform the UT CPM if you are having issues – CPM can assist as well
  • Nadine Miner, UT Campus Partnership Manager, neminer@sandia.gov
• Sandia Contracting Assistance
  • Patricia Gutierrez, University Subcontract Manager, patguti@sandia.gov
UT Austin Office of Sponsored Projects (OSP)

Michelle Strickland, OSP Assistant Director of Contracts & Agreements
Email: michelle.strickland@austin.utexas.edu
pre-award: osp@austin.utexas.edu

Derek Diaz, Grants & Contracts Manager
Email: derek.diaz@austin.utexas.edu
post award: spaa@austin.utexas.edu
• Congratulations on your FY24 Supplemental LDRD Award
• We are here to support you and your success!

• QUESTIONS?
Thank You!
UT Austin Contract Lifecycle Basics for Sandia Awards

• **Proposal Development**
  - UT PI works with departmental staff to develop project proposal (including SOW, Budget, etc.)
  - UT PI / departmental staff submit Funding Proposal (FP) to OSP via UT Research Management System (UTRMS)
  - UT OSP Proposal Team reviews proposal documents, collects AOR signature and submits final proposal to Sandia
  - UT OSP Proposal Team will transmit any Just-In-Time information required by Sandia prior to award issuance

• **Award (PO) Review & Execution**
  - Sandia sends new PO for UT project to UT OSP
  - UT PI / Departmental Staff submits Funded Agreement SmartForm in UT-RMS – Agreements Module
  - UT OSP Contracts Team reviews PO and works with UT PI / departmental staff to collect any needed award information / approve award before finalizing
  - UT OSP Contracts Team signs PO, processes in UT-RMS and routes to UT Grants Team for award setup in UT-RMS – Grants Module
  - Grants Team setups PO in Grants Module and routes to Sponsored Projects Awards Administration (SPAA) for activation and account setup

• **Award Administration**
  - UT departmental staff place charges to project (26-) account at PI instruction (Faculty must supply invoice amounts)
  - UT OSP SPAA generates and submits monthly cost-incurred invoices to Sandia via iSupplier
  - Sandia issues payment to UT via electronic funds transfer
  - UT PI submits reports / deliverables as required by PO statement of work