

# Developing Convergent Research Initiatives at UTC RI

Center of Excellence in Applied Computational  
Science and Engineering (CEACSE)

Call for Concept Papers

June 13, 2024

# Agenda

- Introduction to UTCRI
- Overview of Call for Concept Papers
- Funding and Eligibility
- Selection Process
- Selection Criteria
- Concept Paper Format/Requirements
- FAQs

# Introduction to UTCRI

- UTC Research Institute background
- Mission and goals
- Existing research areas:
  - Transportation and mobility
  - Quantum technologies
- New research focus area

# Call for Concept Papers

- Deadline: **July 15, 2024**
- Overview of requirements:
  - Focus on applied computational science and engineering
  - Engagement of multidisciplinary group of faculty (at least two departments)
  - Modest amount of match from participating colleges
  - Involvement of community/industry stakeholders
  - Leverages existing university infrastructure or includes infrastructure investment plan

# Funding and Eligibility

- Up to \$300,00 per year for three years
  - Portion must be used to recruit at least one research faculty or postdoc AND two PhD (where feasible) or graduate students
  - Minimum \$500,000 external funding expected within four years from start
  - Successful initiatives will also need to demonstrate the potential for sustainable growth beyond this initial three-year period
- Lead PI needs to be a tenured or tenure-track faculty
  - Other collaborators can include any full-time UTC faculty or staff
  - At least one Co-PI from a different department than the PI
  - Investigators from any academic discipline are encouraged to apply

# Selection Process

- Phase I: Concept Paper (due **July 15**)
  - Submissions reviewed by UTC RI's leadership team and a subset of the Internal Advisory Committee
  - Selected topics will be invited to submit for Phase II
  - Selection for Phase II will be complete by August 15
- Phase II: Concept Refinement
  - Selected teams will refine their concept paper and present to UTC RI leadership and members of the Internal Advisory Committee
  - Selection of a new research initiative will be complete by October 15
- Anticipated start date: January 1, 2025

# Selection Criteria

- Strength of technical concept
- Growth trajectory for national impact
- Technical leaders for the concentration area

# Concept Paper Format

- Easily readable 12pt font with 1" margins
- 2-3 page technical concept description
- 1 page of supplementary information



# Concept Paper Requirements

2-3 page technical description:

- Title
- PI and Co-PI (name, job title, affiliation)
- Description of proposed research initiative
- Clear definition of multiple challenges within the focus area that the research initiative could address
- Description of community/industry partnership

# Concept Paper Requirements (cont.)

1 page supplementary information

- List 3-4 “anchor” mid-career/senior researchers, separate from the PI and Co-PI (name, job title, affiliation)
- List 3+ disciplines at UTC that would be strongly involved
- List academic departments at UTC that would be strongly involved
- List primary academic and national lab competitors that have established efforts related to the focus area
- List any federal agencies with a relevant funding portfolio (including an estimate for total R&D funding)
- List key industry entities performing relevant R&D

# Submission Process

- Deadline: **July 15, 2024 11:59PM EST**
- Instructions for Submission via InfoReady Review
  - “UTC RI - FY2025-2028 CEACSE Request for Concept Papers”
- <https://tennessee.infoready4.com/#competitionDetail/1938888>
- No email submissions will be accepted

# FAQs

- Can the PI and Co-PI be from within the same college?
- How important is the involvement of community/industry stakeholders?
- What level of match funding is expected from participating colleges?

# Thank You!

- Any additional questions?
- Feel free to reach out to [hannah-archer@utc.edu](mailto:hannah-archer@utc.edu)