

**FUNDING OPPORTUNITY**  
UT Austin-Amazon Science Hub  
Call for Fellowships  
2024 Cycle

The UT Austin-Amazon Science Hub announces a Summer 2024 Call for Doctoral Student Fellow Nominations.

The Science Hub is a collective effort between UT Austin and Amazon with the mission to address humanity's pressing challenges by cross-pollinating academic and industry research that harnesses the power of computing. Each year, the Science Hub funds several doctoral student fellows through generous support from Amazon.

We solicit research proposals with innovative approaches to a wide range of topics related to automated reasoning, artificial intelligence, and their intersection.

Proposals should seek to advance the state of the art in **Automated Reasoning** and associated AI, especially addressing applications of AI to AR and AR to AI. Example topics of interest include:

- Automated reasoning
- Abstract interpretation
- Correct-by-construction software
- Efficient reasoning with quantifiers
- Improvements to SAT, SMT, and CHC solvers
- Model checking
- Novel applications of automated reasoning
- Provable Privacy
- Software synthesis and optimization
- Software verification, e.g., C, Rust, Java, Dafny
- Static analysis
- Theorem proving
- The use of automated reasoning to improve generative AI techniques
- Using automated reasoning in combination with generative AI techniques
- Verification of distributed protocols and systems
- Verification of randomized algorithms

**SUBMISSION INSTRUCTIONS:**

1. Prepare a package with 1-page personal statement of interest and your CV. Submit via email to: [amazonsciencehub@utexas.edu](mailto:amazonsciencehub@utexas.edu)
2. Request 2 letters of recommendation be sent to [amazonsciencehub@utexas.edu](mailto:amazonsciencehub@utexas.edu) from two different people (letter writers can send those letters separately clearly stating the full name of the nominee).
3. Deadline for Submission: **10 pm CST on August 1, 2024.**

**SELECTION:**

The UT Austin-Amazon Science Hub board of advisors will select the recipients of the fellowship.

- » Recipients will be announced by August 20, 2024.
- » We anticipate up to 2 fellowship awards of \$70k in this cycle.

*Target start date for the fellowships is the beginning of the Fall Semester '24.*