

Available Postdoc Position

RUA

Position ID Number	100018
Supervisor Name	Ufuk Topcu
Supervisor Title	Associate Professor, Cockrell Family Dean's Chair for Engineering Excellence
Phone Number	
Supervisor Email	utopcu@utexas.edu
Lab Website	
Affiliated Institution	University of Texas, Austin
Contact Name	
Contact Title	
Contact Email Address	
Contact Phone Number	
Date of Best Consideration	3/15/22
Application Close Date	12/31/22
Anticipated Start Date	5/16/22
Job Website	
Job Location	University of Texas at Austin, Purdue University, or MIT
Is remote work possible?	Yes
CIP Codes	30 - Multi/Interdisciplinary Studies 14 - Engineering 11 - Computer and Information Sciences

Job Description

Postdoctoral Fellows in Advanced Air Mobility: Positions at UT Austin, MIT, and Purdue University
Faculty at the University of Texas at Austin, Massachusetts Institute of Technology, and Purdue University are seeking postdoctoral fellows to help lead research efforts in a project aiming to establish an algorithmic foundation that will support the development, deployment, and adoption of advanced air mobility systems for autonomous cargo operations at scale. The project is funded by NASA through its University Leadership Initiative. The postdoctoral scholar will collaborate with teams from all three universities and a range of additional partners from academia, industry, and government. They will be supervised by one or multiple of the following faculty members:

- Hamsa Balakrishnan (MIT)
- John-Paul Clarke (UT Austin)
- Karen Marais (Purdue)
- Dengfeng Sun (Purdue)
- Ufuk Topcu (UT Austin)

We seek dynamic individuals with excellent leadership, communication, and management skills. There will be professional development opportunities including but not limited to supervising graduate and undergraduate research assistants, participating in technical conferences, using state-of-the-art experimental facilities, supporting project reporting, and participating in the organization of workshops.

Required Qualifications

The position may be filled by individuals with a Ph.D. degree in any field of engineering or computer science as long as their expertise can be related to the overall goals of the project. While the priority is on the novelty of the candidate's past work and potential for professional growth, the following topics are of particular interest: controls, formal methods, optimization, machine learning, engineering risk analysis, and system safety.

Desired Qualifications

Minimum Monthly Salary	\$0
Maximum Monthly Salary	\$0

Special Instructions for Applicants

The review of applications will begin by March 15th, and the position will remain open until filled. The initial appointment is for one year, and renewal for up to two additional years is possible contingent on satisfactory performance. Salary and benefits will be competitive. If you would like to join our team, please send an application consisting of (1) a letter of interest; (2) curriculum vitae, (3) copies of 2–3 publications written by the candidate, and (4) names of three references to:

Opportunities for teaching?	Yes
Opportunities for supervision/mentoring?	Yes
Opportunities for communitiy outreach?	Yes
Position keywords	Autonomy Air mobility
