

Postdoc position onWireless Communications for Sensor
Systems
University of North Texas

Direct Link: <https://www.AcademicKeys.com/r?job=260446>

Downloaded On: Aug. 1, 2025 7:04am

Posted Jul. 30, 2025, set to expire Nov. 29, 2025

Job Title	Postdoc position onWireless Communications for Sensor Systems
Department	Mechanical and Energy
Institution	University of North Texas Denton, Texas
Date Posted	Jul. 30, 2025
Application Deadline	Aug. 30, 2025
Position Start Date	Aug. 10, 2025
Job Categories	Post-Doc
Academic Field(s)	Electrical and/or Electronics

Apply By Email

Job Description

Position Description:

We invite applications for a **Postdoctoral Research Associate** position focused on **wireless communications for sensor systems**. The successful candidate will contribute to the design, development, and optimization of wireless communication modules for next-generation smart sensor platforms, targeting applications in harsh or remote environments.

Key Responsibilities:

- Design and implement low-power wireless communication modules (e.g., LoRa, BLE, ZigBee, Wi-Fi, or custom RF protocols) for embedded sensor platforms.
- Integrate and test wireless modules with sensor hardware for real-time data acquisition and

Postdoc position on Wireless Communications for Sensor
Systems
University of North Texas

Direct Link: <https://www.AcademicKeys.com/r?job=260446>

Downloaded On: Aug. 1, 2025 7:04am

Posted Jul. 30, 2025, set to expire Nov. 29, 2025

transmission.

- Conduct experimental validation and performance evaluation in lab and field environments.
- Collaborate with multidisciplinary teams including materials scientists, mechanical engineers, and computer scientists.
- Prepare technical reports, journal publications, and contribute to proposal writing.

Required Qualifications:

- Ph.D. in Electrical Engineering.
- Strong expertise in wireless communications, particularly in protocol design, RF circuit design, or embedded system implementation.
- Experience in developing wireless communication modules for sensors or IoT applications.
- Proficiency in embedded systems programming (e.g., C/C++, Python, RTOS) and familiarity with hardware platforms such as STM32, ESP32, or similar.
- Strong analytical skills and hands-on hardware debugging experience.

Preferred Qualifications:

- Familiarity with wireless standards and regulatory compliance (e.g., FCC, CE).
- Prior publications in IEEE journals or conferences related to wireless sensing or communications
-

Postdoc position on Wireless Communications for Sensor
Systems
University of North Texas

Direct Link: <https://www.AcademicKeys.com/r?job=260446>

Downloaded On: Aug. 1, 2025 7:04am

Posted Jul. 30, 2025, set to expire Nov. 29, 2025

Interested applicants should contact Prof. Haifeng Zhang (haifeng.zhang@unt.edu)

EEO/AA Policy

UNT does not unlawfully discriminate on the basis of race, color, national or ethnic origin, religion, sex, sexual orientation, gender identity or expression, age, political affiliation, disability, marital status, ancestry, genetic information, citizenship, or veteran status in its application and admission process, educational programs and activities, university facilities, or employment policies. The University takes active measures to prevent such conduct and immediately investigates and takes remedial action when appropriate. The University also prohibits and takes actions to prevent retaliation against individuals who report or file a charge of discrimination, harassment, or sexual violence; participate in an investigation, or oppose any form of discrimination, harassment, or sexual violence.

Contact Information

Please reference Academickeys in your cover letter when
applying for or inquiring about this job announcement.

Contact Haifeng Zhang
Mechanical and Energy
University of North Texas
Denton, TX

Phone Number 9403698207

Contact E-mail haifeng.zhang@unt.edu