National Science Foundation (NSF)

Research Experiences for Teachers (RET) Site at Texas A&M University-Kingsville (TAMUK)

Integrating data-driven research in Renewable Energy Across Disciplines (I-READ)

June 17, 2024 - July 26, 2024

Application Deadline: April 1, 2024

(Grades 6-12 STEM Teachers are Eligible to Apply)

Highlights of the I-READ NSF RET Site:

- 6-week of team-based research and professional development activities at TAMUK with guidance from faculty mentors and industrial advisors
- $1,250/week stipend for the 6 weeks of summer program
- Develop curricular modules based on the research activities and training/workshop on curriculum development
- Field trips, seminars given by the invited speakers from industries, poster presentation, etc.
- Additional conference travel support to present the work
- Additional support to implement the curricular modules

More information can be found at:

https://www.tamuk.edu/engineering/institutes-research/NSF-RET-Program/Index.html

or

https://tinyurl.com/4t2kyku2

Please Print or Type. Complete all items, if not applicable then please write 'NA' in the space.

Full Name: _____

Mailing Address: _____

School: _____ **ISD**: _____ **Grade Teach**: _____

Subject Teach:_____ **Cell Phone #**: _____

Email Address*: _____

***Please note: You will be notified by email if selected, so please type or write legibly.**

Are you a U.S. Citizen or permanent resident? Yes___ No ___

Are you a first-generation college graduate? Yes___ No ___

How did you find out about this RET opportunity?

□ From NSF website □ From TAMUK website □ From your friends or faculty

□ Others: _____

Please provide the following demographic information as part of the application form.

Ethnicity: □ Hispanic or Latino □ Not Hispanic or Latino

Race: ***(Choose one or more response)*** □ American Indian or Alaskan Native □ Asian
□ Black or African American □ White
□ Native Hawaiian or Other Pacific Islander
□ Other (please specify):_____

Gender: □ Male □ Female □ Other (please specify):_____

Disability: □ Hearing □ Visual □ Mobility/Orthopedic □ None
□ Other (please specify): _____

Potential Research Projects

Each project will host two RET participants to work as a team. Please rank your choice of research projects from the list below, using 1 for the best and 5 for the least. Detailed project descriptions can be found on the I-READ website.

Potential Projects	Rank
1) Solar Radiation Big Data Analysis for Strategic Positioning of Residential Solar Panels	
2) Feasibility Analysis of Developing Residential-Scale Wind Energy Facilities in Farms/Ranches	
3) Effect of Daylighting on Students' Learning and Classroom Electricity Consumption	
4) Study the Potential of Converting Food Waste into Renewable Energy in the Backyard	
5) Wind Farm Layout Study, Future Development, and Cost Analysis	

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Signature of Applicant **Date**

All application packages must be completed and must be emailed, or faxed, or postmarked by April 1, 2024.

To be qualified, you must:

1) Be a US citizen or permanent resident,
2) Be a STEM Teacher in 6-12 Grades, and
3) Submit the following materials before the application deadline:
a) Completed application form (this form),
b) Resume with detailed education and work experiences,
c) At least two recommendation letters including one letter from the principal/superintendent to verify the current job status (signed letters can be sent by the recommender directly to Dr. Mohammad Hossain via email or be sent by yourself together with other documents), and
d) One-page personal statement discussing the career goals and plans/experiences in promoting STEM.

EMAIL TO (*Email submission is preferred*):
mohammad.hossain@tamuk.edu

MAIL TO:
Dr. Mohammad Motaher Hossain
Mechanical and Industrial Engineering
Texas A&M University-Kingsville, 700 University Blvd., MSC 191, Kingsville, TX 78363

FAX TO:
361-593-4026