

Graduate Research Assistant (PhD)
University of North Texas at Denton

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Posted Sep. 6, 2020, expired Jan. 19, 2021

Job Title	Graduate Research Assistant (PhD)
Department	College of Engineering
Institution	University of North Texas at Denton Denton, Texas
Date Posted	Sep. 6, 2020
Application Deadline	open until filled
Position Start Date	Available immediately
Job Categories	Graduate Student
Academic Field(s)	Physics - Elementary Particles/Nuclear Physics - General Nanotechnology Materials Sciences/Polymer Sciences
Job Website	https://kaulgroup.engineering.unt.edu/
Apply By Email	anupama.kaul@unt.edu

Job Description

Date Posted: August 28, 2020

Job Title

Graduate student researcher in the Nanoscale Materials and Devices Laboratory (NMDL) in solar cell device characterization, device fabrication and material analysis

Department of Electrical Engineering; Department of Materials Science and Engineering

College of Engineering

University of North Texas

Denton, TX

United States

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Job Categories:
Graduate Student Researcher; Research Assistant

Academic Fields:
Physics
Electrical and/or Electronics
Materials Science and Engineering

University of North Texas at Denton

Job Opening ID:

Job Title: Graduate student researcher in solar cell device characterization, device fabrication and material analysis

Department: College of Engineering

Applications are invited for a Graduate Student Researcher (PhD level) to join the Nanoscale Materials and Devices Laboratory (NMDL) (<https://kaulgroup.engineering.unt.edu/>) at the University of North Texas, Denton, to conduct research in developing solar cells using novel materials, including those based on perovskites and 2D layered materials. Prior background in solar cell research is highly desired. The broad research thrusts for NMDL are to synthesize nanomaterials including semiconducting van der Waals solids, such as selenides, sulphides and nanocarbons and characterize their unique properties using a suite of electronic and opto-electronic transport techniques, and integrate these materials into devices for nanoelectronics, flexible electronics, sensors, and solar cells. We are looking for a highly motivated and creative individual, with a particular focus toward photovoltaics (PV) research. Direct, prior hands-on experience in the experimental fabrication and electrical characterization of solar cell materials and devices is a definite plus and highly desirable.

Applicants should have a background in any of the following fields: electrical engineering, materials science, or physics and be self-motivated and goal-oriented. The ideal candidate will have excellent hands-on laboratory skills, analytical thinking and an eye toward detail, good problem solving skills,

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and a scientific rigor for independent research publishable in reputable peer-reviewed journals. Good written and oral communication skills are also a key attribute to succeed in this position. Must be able to work collaboratively and in a team environment. The research conducted should provide a very good opportunity for the candidate to further develop his/her experimental and analytical skills in solar cell research, nanotechnology for a career in academia, industry or government.

A monthly stipend will be provided at ~ \$1800, in addition to the major tuition fees being covered toward the PhD degree from UNT. The start date is ASAP. Appointment will be for one year and can be renewed contingent upon satisfactory performance as gauged via the number and the quality of journal publications emerging from the research pursued by the candidate, and the continued availability of funding. If you are interested in being considered for this position, please submit your resume, a short statement of research interests and the names of three references ASAP to Prof. Anupama Kaul (Anupama.Kaul@unt.edu).

Contact Information

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

Contact Anupama Kaul
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Denton, TX

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