

Project ID- RS-36007



राष्ट्रीय प्रौद्योगिकी संस्थान वरंगल
NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL
(शिक्षा मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व का एक संस्थान)
(An Institute of National Importance under Ministry of Education, Govt. of India)
तेलंगाना / Telangana – 506004, India.

OFFICE OF THE DEAN (R & D)

Requisition of Manpower recruitment under R&D Project

Project ID Number	RS - 36007
Name of PI	Prof. Aalu Boda
Name of Co-PI, if any	NA
Email and Mob no of PI	abdop@nitw.ac.in, 9494868704
Name of Dept./School	Physics
Project Title	Twisted graphene quantum dots: Theoretical insights into electronic structure for advanced nanophotonic devices.
Budget Allocated in Manpower Head (Copy of Sanction order to be attached)	Copy of the Sanction order attached
Position Requirement (JRF/SRF/PA-I/other if Any)	JRF
Whether the staff will be consider for PhD	Yes
Duration of Appointment	3 Years
Fellowship as approved in the grant letter	Rs. 37,000*/- per month for the first two years and Rs. 42,000*/- per month for the 3 rd year + 20% HRA
Required Qualification & Experience	<u>Essential:</u> <ul style="list-style-type: none">• B.Sc. with Physics and M.Sc./ M.Sc. (Tech) in Physics/ M. Tech with specialization in Photonics/ Electronics/ Instrumentation/ Materials Science/ Nanotechnology/ Solid State Physics or any equivalent specialization.• Candidates with a Master's degree in Physics and a relevant discipline with a minimum of 60% aggregate marks or 6.5 CGPA at both UG and PG (wherever applicable) for GEN/ GEN-EWS/ OBC-NCL category and minimum 55% aggregate marks or 6.0 CGPA at both UG and PG for SC/ ST/ PwD category. GATE/ CSIR-NET is desirable but not mandatory.• Strong background in: Quantum Mechanics, Solid State Physics, Condensed Matter Physics, Nanoscience and Nanotechnology, and Mathematical Physics.

FILE NO. ANRF/IRG/2025/001861/PS
Anusandhan National Research Foundation (ANRF)
Inclusivity Research Grant(IRG) Program

ANRF
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Dated: 19 March, 2026

ORDER

Subject: Financial Sanction of the research project titled **Twisted graphene quantum dots: Theoretical insights into electronic structure for advanced nanophotonic devices** by Dr. Aalu Boda, Physics, National Institute Of Technology, Warangal, NIT Warangal, Warangal, TELANGANA - 506004 under **Inclusivity Research Grant (ST)**.

Sanction of **Anusandhan National Research Foundation (ANRF)** is hereby accorded for the above-mentioned project under **Inclusivity Research Grant(IRG) Program** at a total cost of **Rs. 34,50,480/- (Rs. Thirty Four Lakh Fifty Thousand Four Hundred and Eighty Only)** with break-up of **Rs. 0/-** under Capital (Non-recurring) head and **Rs.34,50,480/-** under General (Recurring) head for a duration of 36 months.

The following budget may be considered for **National Institute Of Technology, Warangal, NIT Warangal, Warangal, TELANGANA - 506004**

S. No	Head	Total (in Rs.)
A	Non-Recurring	
1	Equipment	0
A'	Total (Non-Recurring)	0
B	Recurring Items	
1	Recurring - I	2875400
2	Recurring - II : (Overhead Charges)	575080
B'	Total (Recurring)	3450480
C	Total cost of the project (A' + B')	3450480

- The sanction order for the assignment of funds under non-recurring and recurring will be issued separately. The project becomes operational from the day the first installment of the grant is assigned to the institute.
- Sanction of the grant is subject to the conditions as detailed in Terms & Conditions, as per Annexure I. Failure to comply with the terms and conditions of the sanction order will entail withdrawal of assigned limits.
- The assigned limits have to be utilised for the purpose, within the financial year. Financial year carry forward will not be allowed. Funds will automatically lapse at the end of each financial year.
- Any unutilized assignment will be withdrawn by ANRF.
- The institute will furnish to the ANRF, separate utilization certificates (UCs), financial year-wise for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year (as per 12 A of GFR 2017).
- The institute will maintain separate audited accounts for the project.
- Operational flexibility is provided to utilise the funds under the Recurring-I head, subject to the following conditions.
 - The expenditure under the travel head is limited to Rs.300000/-.
 - International travel for project-related work is permitted within the travel head. However, the expenditure is limited to Rs. 3 Lakh for a three-year project, and proportionately lower for projects of shorter duration.
 - The expenditure under the contingency head is limited to Rs.300000/-.
 - Contingency funds can be utilized for registration charges for international conferences.
- As per rule 211 of GFR, the accounts of the project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.
- The institutions shall not transfer the assignments to any other account nor divert the same to Fixed Deposits/ Flexi-Account/ Multi-Option Deposit Account/ Corporate Liquid Term Deposit (CLTD) account etc./in any manner whatsoever. The assignment released to the institute shall not be parked in any bank account of any other agency. Direct payments through PFMS to be made to vendors/suppliers.
- The institute shall ensure the compliance of OM. No. 1/(18)/PFMS/FCD/2021 dated: 9th March 2022 and OM No. 3/(06)/PFMS/2023 dated 5th February 2024 of the Department of Expenditure, Ministry of Finance and subsequent directions issued thereafter.
- Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc.

13. The sanctioned equipment should be procured as per GFR and disposal of the same would be done with prior approval of ANRF.

14. The research personnel sanctioned in the project, if any, is co-terminus with the duration of the project and ANRF will have no liability to meet the fellowship and the salary of supporting staff, if any, beyond the duration of the project.

15. The investigator/host institute must acknowledge the support provided to them in all publications and any other output emanating from the project/program funded by ANRF, along with the project file number ANRF/IRG/2025/001861/PS.

16. The institute should ensure that the technical support/financial assistance provided by the ANRF should invariably be highlighted/ acknowledged in the opening paragraphs of their Annual Report.

17. As and when required, separate governance guidelines will be released for the technical review and financial monitoring of the sanctioned projects as issued by ANRF and will be reviewed by SEC.

18. Health, safety and environmental-related government norms, as issued from time to time and given at ANRF website, are required to be followed by all beneficiaries of the project, including PI and research personnel involved. ANRF will not be accountable for any legal consequences of non-compliance with safety norms.

19. The PI is encouraged to actively showcase their projects on appropriate social media platforms to ensure greater visibility and public engagement. Regular updates, such as project milestones, publications, technical meetings, product development, and outreach efforts, should be disseminated through engaging content in the form of text, images, videos or infographics tagging @ANRFIndia, #ANRFIndia and the relevant program account. The content should uphold the organization integrity and sanctity.


(Dr. Thangaradjou T)
Scientist F

To,
DDO
ANRF, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R Building, II Floor I. P. Estate, Delhi-110002
2.	Sanction Folder, ANRF, New Delhi.
3.	File Copy
4.	Dr. Aalu Boda Physics National Institute Of Technology, Warangal, NIT Warangal, Warangal, TELANGANA - 506004 Email: abdop@nitw.ac.in Mobile: 919494868704 (For guidance, terms & conditions etc. please visit www.anrfonline.in .)
5.	National Institute Of Technology, Warangal, NIT Warangal, Warangal, TELANGANA - 506004 (Receipt of the grant may be intimated by name to the undersigned)


(Dr. Thangaradjou T)
Scientist F

FILE NO. ANRF/IRG/2025/001861/PS-G
Anusandhan National Research Foundation (ANRF)
Inclusivity Research Grant(IRG) Program

ANRF
3rd & 4th Floor, Block II
Technology Bhavan, New Mehrauli Road
New Delhi - 110016

Dated: 19 March, 2026

ORDER

Subject: Research project titled **Twisted graphene quantum dots: Theoretical insights into electronic structure for advanced nanophotonic devices** by Dr. Aalu Boda, Physics, National Institute Of Technology, Warangal, NIT Warangal, Warangal, TELANGANA - 506004 under **Inclusivity Research Grant (ST)**- Release of 1st installment regarding.

1. In continuation of ANRF's sanction order No. ANRF/IRG/2025/001861/PS dated 19 March, 2026, sanction of the competent authority is hereby accorded to the assignment of **Rs.1229000/-** under 'Grants-in-aid General' to National Institute Of Technology, Warangal, NIT Warangal, Warangal, TELANGANA - 506004 being the grant for the financial year 2025-2026 for implementation of the above-said project.

2. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions, as per Annexure I.

3. This assignment is being made under **Inclusivity Research Grant (General)**.

4. The assignment has been issued with the approval of the competent authority on National Institute Of Technology, Warangal, NIT Warangal, Warangal, TELANGANA - 506004 with the approval of the competent authority under delegated powers on **16 March, 2026** and vide Diary No. **ANRF/F/13665/2025-2026** dated 17 March, 2026.

5. The assignment limit of **Rs.1229000/-** (Rupees **Twelve Lakh Twenty Nine Thousand** Only) will be drawn by DDO, ANRF and assign to the institution through saving bank account opened for ANRF scheme 4211, as per the details given below:

Name of A/C Holder	ANRF
Bank A/C No	349902010052015
Name of the Bank & branch	Union Bank of India, Delhi-Safdarjang Branch, South Delhi-110016
RTGS/IFSC code	UBIN0534994

ANRF will further allocate/assign the above limit as expenditure to the institution through PFMS as per details given below: -

Complete address of the Institution	National Institute Of Technology, Warangal, NIT Warangal, Warangal, TELANGANA - 506004
PFMS unique code	NITWRANGAL
Name of the PI	Dr. Aalu Boda
Email ID of PI	abdop@nitw.ac.in


6. As per Rule 234 of GFR 2017, the sanction has been entered at S. No. 2025/0529 in the register of grants maintained for **Inclusivity Research Grant (IRG)** program.


(Dr. Thangaradjou T)
Scientist F

To,
DDO
ANRF, New Delhi

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1.	The Principal Director of Audit, A.G.C.R Building, II Floor I. P. Estate, Delhi-110002
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4.	Dr. Aalu Boda Physics National Institute Of Technology, Warangal, NIT Warangal, Warangal, TELANGANA - 506004 Email: abdop@nitw.ac.in Mobile: 919494868704 (For guidance, terms & conditions etc. please visit www.anrfonline.in .)
5.	National Institute Of Technology, Warangal, NIT Warangal, Warangal, TELANGANA - 506004 (Receipt of the grant may be intimated by name to the undersigned)


(Dr. Thangaradjou T)
Scientist F



NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL

(An Institution of National Importance)

Department of Physics

Warangal, 506004, Telangana, India

Ref. No.: NITW/PH/AB/ANRF-IRG/ JRF

Date: 19/06/2026

Advertisement for the Position of JRF

Project title	<i>Twisted graphene quantum dots: Theoretical insights into electronic structure for advanced nanophotonic devices.</i>
Sponsoring agency	<i>Anusandhan National Research Foundation (ANRF), Inclusivity Research Grant (IRG)</i> (File No.: ANRF/IRG/2025/001861/PS dated 19 March 2026)
Position title	Junior Research Fellow (JRF)
Duration (in years)	03-year project
Number of position(s)	One
Age limit	30 years, Re as per institute norms for PhD admissions
Essential qualification	<ul style="list-style-type: none">• B.Sc. with Physics and M.Sc./ M.Sc. (Tech) in Physics/ M.Tech with specialization in Photonics/ Electronics/ Instrumentation/ Materials Science/ Nanotechnology/ Solid State Physics or any equivalent specialization• Candidates with a Master's degree in Physics and a relevant discipline with a minimum of 60% aggregate marks or 6.5 CGPA at both UG and PG (wherever applicable) for GEN/ GEN-EWS/ OBC-NCL category and minimum 55% aggregate marks or 6.0 CGPA at both UG and PG for SC/ ST/ PwD category. GATE/ CSIR-NET is desirable but not mandatory.• Strong background in: Quantum Mechanics, Solid State Physics, Condensed Matter Physics, Nanoscience and Nanotechnology, and Mathematical Physics
Desired qualifications	<ul style="list-style-type: none">• Experience in theoretical and computational research related to low-dimensional nanostructures, graphene, quantum dots, or semiconductor nanostructures.• Familiarity with numerical techniques for solving Schrödinger-type equations and electronic structure problems. Quantum Espresso, DFT(VASP) calculations. Good analytical ability, scientific writing skills, and competence in report writing are desirable.• GATE Qualified (<i>desirable but not mandatory</i>)
Emoluments and HRA/ Accommodation	Rs. 37,000*/- per month for the first two years and Rs. 42,000*/- per month for the 3rd year + 20% HRA (<i>No HRA if hostel accommodation is provided</i>) Note: *For non-Gate/CSIR-NET candidate Emoluments are as per ANRF norms.
Job nature	<ul style="list-style-type: none">• Developing theoretical models for twisted graphene quantum dots.• Performing numerical simulations of electronic, optical, and transport properties using computational tools.• Studying quantum confinement effects, energy spectra, wave functions, and electronic structure of graphene-based nanostructures to complete the objectives of the ANRF (IRG) project.
Other benefits	The selected candidates are eligible to register for a PhD degree at NIT, Warangal, in accordance with the institute's rules. However, he/she needs to apply for a PhD position when the advertisement is open.
How to apply?	The application form is attached to this advertisement. Fill the form and email it to abdop@nitw.ac.in along with a biodata/CV and scanned copies of certificates in a single PDF file.
Submission mode	Soft copy
Last date to apply	15 /07/2026 @ 5 pm
Contact	Prof. Aalu Boda, Associate Professor, Department of Physics, NIT Warangal, Telangana-506004 <i>Phone number: 9494868704; Email: abdop@nitw.ac.in</i>
Please note:	<ul style="list-style-type: none">○ The position is purely temporary and terminable at any time if the progress and conduct of the candidate are not satisfactory.○ Please enclose a brief resume/ curriculum vitae/ bio-data along with the application form.○ The list of eligible candidates will be announced on the institute website and also intimated through email or phone.○ Shortlisted candidate will have to attend an offline interview. However, an online interview arrangement may be considered only under special circumstances, subject to prior approval○ Result-awaited candidates can also apply with last semester4/year aggregated marks.○ No TA/DA will be paid for attending the interview

Application for the position of JRF under the ANRF (ARG) project

Advt. No. _____ dated _____

(Please enclose a copy of bio-data/ resume/ curriculum-vitae)

1. **Name of the candidate:**
2. **Father's name:**
3. **Email (Gmail) & Phone no:**
4. **Date of birth
:(DD/MM/YYYY)**
5. **Sex** Male/ Female
6. **Marital status** Single/ married
7. **Category** OC/OBC/SC/ST
8. **Educational qualifications**

Degree	Specialization/ subjects	Board/ University	Year of passing	Class	Percentage/ CGPA
SSC					
Intermediate					
B.Sc.					
M.Sc.					

9. GATE qualified:

Score	Year appeared	Score	All India rank
GATE/ NET/ mention			

10. Research/Industrial/Teaching experience

S.No.	Organisation/ industry served	Date/ Month of entry	Date/ Month of leaving	Months/ Years of experience

11. Postal Address

12. Any other relevant information

Declaration

I hereby declare that all statements made in this application are true, complete, and correct to the best of my knowledge and belief. In the event of the information being found false or incorrect, or any ineligibility being detected before or after the selection, my candidature is liable to be canceled.

Date:

Signature of the candidate