



**DEFENCE INSTITUTE OF ADVANCED TECHNOLOGY**  
**(Deemed to be University U/s 3 of UGC Act, 1956)**  
**Girinagar, Pune-411 025.**  
**(An Autonomous Organisation funded by DDR & D, MoD)**



**ADVT NO. 14-2020/JRF/SRF/DIAT(DU)**

Defence Institute of Advanced Technology, Pune is looking young Science / Engineering graduates for a position of Junior Research Fellow (JRF) or Senior Research Fellow (SRF) to work under the **DRDO Project** entitled “**Electrically Tuneable 3 -3.45µm Quantum Cascade Laser for LiDAR Application**” and **Design and Development of THz Quantum Cascade Laser**. The details/eligibility conditions for selection are given hereunder:-

Sr No.	Name of Post	No. of Post	Educational Qualifications required	Upper Age-Limit	Monthly Stipend Payable	Tenure
1.	Junior Research Fellow (JRF)  Or  Senior Research Fellow (SRF)	03 (Three)	<p><b>Essential</b></p> <p>1. For JRF: Master degree in Physics/Electronics Science/ Applied Physics/Optics/Photonics or equivalent, <b>First Class with UGC/CSIR-NET/GATE.</b></p> <p>2. For SRF: ME/ M.Tech/M.Phil in Physics/Electronics Science/Applied Physics/Laser &amp; Elcetro-optics/ Laser Technology/ Applied Optics/Photonics/ Opto-Electronics and Optical Communication/ Electronics Engg./ Electronics &amp; Comm. Engg. or equivalent <b>First Class with UGC/CSIR-NET/GATE.</b></p> <p><b>Desirable</b></p> <p>1. Should have good knowledge of Quantum mechanics, Computational physics, Laser Technology/Fiber Laser/ Applied optics/Micro &amp; nanofabrication.</p> <p>2. Candidate with the Master dissertation in experimental nanophotonics/ Silicon photonics using cleanroom tool will be preferred</p>	Not to exceed 28 Years for JRF and 30 Year for SRF (*)	Rs. 31000/- per month for JRF  and  35000/- per month for SRF	The positions are purely temporary and are for a period of 36 months and co-terminus with the term of the project, whichever is earlier,  <b>Subject to satisfactory performance</b>

**Note-1 :**

Note-2 :(\*) The crucial date for determining the **upper age limit is 31<sup>st</sup> Dec 2020.** Upper age limit is relaxable up to 05 years in case of candidates belonging to Scheduled Castes / Scheduled Tribes, Women and up to 03 years in case of candidates belonging to OBC).

Note-3 : Mode of interview will be in-person or through vedio conferencing, whichever is sitbale to DIAT.

**Note :** Offer of JRF/SRF Fellowship does not confer on the Fellows/Interns, any right for absorption in DIAT (DU), Pune. For further details / eligibility conditions for selection, visit the Institute's Website [www.diat.ac.in](http://www.diat.ac.in) on link [careers@DIAT](mailto:careers@DIAT)



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(An Autonomous Organization funded by Department of  
Defence Research & Development, Ministry of Defence)



**Call for Application**

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2. Eligible JRF/SRF will be encouraged to register for the PhD program as per DIAT norms.
3. The Institute may provide campus/hostel accommodation to the selected JRFs/SRFs, subject to availability.
4. No HRA will be admissible to JRFs/SRFs.

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5. **How to Apply:** A Brief bio-data duly signed & Application form (available on DIAT website as Appendix) scanned in PDF, Proof of Date of Birth and Final Year / Previous Year Marksheet (if available), may be sent on the Email ID of the Principal Investigator( [ddhirhe@diat.ac.in](mailto:ddhirhe@diat.ac.in)) with a subject titled “**Application for JRF/SRF**” on or before **31<sup>st</sup> Dec 2020**. Based on the suitability for the project, the applicants will be called for interview (in person or video conference). No TA/DA will be paid for attending the interview. The names of the candidate shortlisted for interview will be made available on the DIAT website and or an Email will be sent to suitable candidates.
6. Candidates have to bring their original applications with all necessary educational and other supporting documents/project reports/publications etc. on the day of the interview.
7. **Other Terms & Conditions:-**
  - a) The appointment is purely temporary and will terminate automatically without any notice or compensation on termination of the project.
  - b) Offer of JRF/SRF Fellowship does not confer on the Fellows/Interns, any right for absorption in DIAT (DU), Pune. The appointed JRFs/SRFs shall have no claim of appointment/absorption in Funding Agency or in DIAT Pune.
  - c) The qualification prescribed should have been obtained from recognized Universities / Institutions.
  - d) The prescribed educational qualifications are the bare minimum, and mere possession of the same does not entitle candidates to be considered at each stage of the selection process. In case of a large number of application, based on the recommendations of the Screening Committee, the Project Investigator may restrict the number of candidates to be a call for the interview to a reasonable limit after taking into consideration qualifications and experience over and above the minimum prescribed in the advertisement. Therefore, it will be in the interest of the candidates, to mention all the qualifications and experience in the application.
  - e) Selected candidates will have to join duty immediately on receipt of the offer letter.
8. For further details/clarification, please visit our website [www.diat.ac.in](http://www.diat.ac.in) or contact **Dr Devnath Dhirhe, Principal Investigator** of the project, in the Department of Applied Physics on Mobile No. **9405369074** and No (020) **24304403** respectively.

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(DEEMED TO BE UNIVERSITY u/s 3 of UGC ACT, 1956)

(Department of Defence Research & Development, Ministry Of Defence, Govt. Of India)

Girinagar, Pune - 411025

## APPLICATION FOR ENGAGEMENT AS JUNIOR RESEARCH FELLOW (JRF)/ SENIOR RESEARCH FELLOW (SRF) UNDER SPONSORED PROJECT

Tick mark at least one project that you wish to work:

1. *Electrically Tuneable 3 -3.45µm Quantum Cascade Laser for LiDAR Application*
2. *Design and Development of THz Quantum Cascade Laser*

PASTE HERE A SIGNED COPY OF YOUR RECENT PASS-PORT SIZE PHOTOGRAPH
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Qualifying Discipline - \_\_\_\_\_ Post : \_\_\_\_\_

1. Name in full \_\_\_\_\_  
(as in qualifying degree certificate)

2. Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Pin

3. Email : \_\_\_\_\_ 4. Mobile \_\_\_\_\_

5. Phone No. \_\_\_\_\_ -- \_\_\_\_\_ 6. Marital Status  7. Sex (M/F/TG)

STD Code

8. Date of Birth \_\_\_\_\_  
(as in School leaving certificate)

9. Caste : \_\_\_\_\_  
Gen/SC/ST/OBC(NCL)

10. What are you doing currently:

11. Details of academic record (Please attach separate sheets if necessary):

Exam/ Degree	Branch/ Subject	University/ Institute	Month & Year	% of Marks	Relative rank in class*
X					
XII					
Bachelors					
Year 1	SEM 1				
	SEM 2				
Year 2	SEM 3				
	SEM 4				
Year 3	SEM 5				
	SEM 6				
Year 4	SEM 7				
	SEM 8				
Masters					
Year 1	SEM 1				
	SEM 2				
Year 2	SEM 3				
	SEM 4				
Any other Qualifications					

\* Please clearly mention the relative rank in class/division/college/university (if any) . eg. 5<sup>th</sup> in 89 students, 1<sup>st</sup> in university, 3<sup>rd</sup> in state as of the date of application. If you have not received result till date of application, please mention

**12. Research/Professional Experience in reverse chronological order** (*Attach separate sheet with details, if required*)

<b>Name &amp; Location of University/Institute/Industry/Laboratory</b>	<b>Period</b>	<b>Nature of duties/ Position held</b>	<i>Name of Supervisor</i>	<b>Title of Dissertation/Area of Research</b>

**13. Additional Information** (*Attach separate sheet with details, if required*)

- a. Ranks/Scores/Awards obtained in university or national level exam such as CSIR, UGC, GATE :
- b. Papers presented at seminar & conferences (*attach copies if any*) :
- c. Projects carried out (if any, other than required for academic program) :
- d. Participation/recognition in competition, such as NTSE, Olympiad, Design Contests :
- e. Any other special recognition/information such as knowledge of special tools/ techniques/skills :

**14.** Any other information: -

**15. Declaration by the Applicant:**

- a. I certify that the information given above is correct and I am aware that providing incorrect information in the application form may result in the cancellation of the selection.
- b. If I accept the offer of JRF/Voluntary Project Interns, I hereby undertake to abide by the rules and regulations of the Institute.

Date :  
Place :

Signature of Applicant :  
(Name of Applicant)