



राष्ट्रीय प्रौद्योगिकी संस्थान दिल्ली

NATIONAL INSTITUTE OF TECHNOLOGY DELHI

(मानवसंसाधन विकास मंत्रालय, भारत सरकार के अधीन एक स्वायत्त संस्थान)

(An autonomous Institute under the aegis of Ministry of HRD, Govt. of India)

Sector A-7, Institutional Area Narela, Delhi-110040, INDIA, Tele: +9111-27787500-503, Fax: +9111-27787503

Website: www.nitdelhi.ac.in

Ref No.: NITD/ DST_SERB/ ECR_2017/ Rikmantra_Basu/03

July 01, 2017

Advertisement for Junior Research Fellow (JRF) Position

Applications are invited from highly motivated and eligible candidates for 1 (one) position of JRF in the following DST-SERB funded sponsored research project:

Project Title: Design of Electronic and Photonic Devices Using $Ge_{1-x}Sn_x$ Alloy: An Emerging Group IV Semiconductor Material, and Investigation of Physical Processes of The Devices.

Funding Agency: Science and Engineering Research Board (SERB) - DST, Government of India

File Number: ECR/2017/000794

Name of the Project Investigator (PI): Dr. Rikmantra Basu, Assistant Professor

Department: Electronics and Communication Engineering, NIT Delhi

Duration of the project: 3 Years (2017-2020)

Eligibility Criterion:

Essential Qualification:

- (i) M. Tech. or M.E. degree in Electronics and Communication Engineering with first division/class with specialization/expertise in photonics, optics and optical communication, semiconductor device physics or in any such related area.
- (ii) B. Tech. or B.E. degree in Electronics and Communication Engineering with first division.

Desirable Qualification & Experience:

- Candidates should have cleared GATE at any period of time.
- It is highly desirable that the candidates have research experience in modeling and simulation of semiconductor based opto-electronic/ photonic devices and have basic knowledge in semiconductor/ solid-state device physics, quantum mechanical modeling of photonic devices, nano-electronics and nano-photonics, etc.
- Knowledge of simulation software, like MATLAB (programming), PSPICE, SILVACO TCAD, COMSOL Multiphysics, is highly desirable.

Job Profile:

The responsibility of the JRF will be to study electronic and optoelectronic processes in emerging group IV alloy materials, to explore the opportunities and challenges and to develop novel electronic and opto-electronic devices made of the alloys, and to study (both analytical and simulation based) the performance characteristics of those devices.

Duration of Appointment:

Initially the appointment will be made for one year ~~with~~ which can be extended up to 3 (three) years, purely based on the performance. The position is co-terminus with the project.

Fellowship:

A consolidated salary/fellowship of INR 25,000/- per month will be paid as per the terms and conditions of the project.

Application Procedure:

- Candidates possessing the requisite qualification and experience should apply, in the attached format along with their updated CV, latest by **July 28, 2017 5:00 PM**.
- Duly signed copy of attached application form filled in all respect along with the signed copies of mark sheets/documents, testimonials, certificates, resume and any other relevant documents should be sent (hard copy) to following address

Dr. Rikmantra Basu
Principal Investigator, DST –SERB Project 2017
Assistant Professor, ECE Department
Office 206, ECE Department,
NIT Delhi, Sector A-7, Institutional Area, Narela 110040, Delhi, INDIA.
Contact(s): +911133861150 (O)
Email: rikmantrabasu@nitdelhi.ac.in

In addition to above candidates must have to send a brief research proposal (Maximum 2 Pages of A4 sheets) indicating the knowledge/ interest of applicant in related to the project topic specifically.

- In the envelope it should be written on the top: **“Application for JRF in ECE Department, NIT Delhi: DST-SERB Project 2017”**.
- In the application form properly mention your communication address, email address (s) and present contact number(s) for any communication.
- Incomplete application forms and forms received after due date and time will be summarily rejected.
- No communication regarding processing/ postal delay or any such thing will be entertained in relation to applications received.

Shortlisting Procedure:

- The short-listed candidates, to be called for interview, will be intimated **only through emails**. Candidates are advised to check their given primary email regularly.
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- No TA/DA shall be paid to candidates for attending the Interview.

Selection Procedure:

- The decision of the expert panel set up for interview will be considered final.
- The appointment is for time bound project and the candidate is required to work dedicatedly for the successful completion of the project. Selected candidate has to join immediately.
- Selected candidate will be encouraged to enroll for Ph.D. as per rules of NIT Delhi.
- All the Terms and Conditions for this recruitment will be as per guidelines of Science and Engineering Research Board, Department of Science and Technology (DST), Government of India.

Rikmantra Basu

(Dr. Rikmantra Basu)

Principal Investigator, DST –SERB Project 2017
Assistant Professor, ECE Department
NIT Delhi, Sector A-7, Institutional Area, Narela 110040, Delhi, INDIA.

Copy to:

1. PS to Hon'ble Director (for kind information).
2. Dean (R&C).
3. Head of Department, Electronics and Communication Engineering.
4. Assistant Registrar (Administration).
5. Scientific Officer (for displaying the advertisement on institute website please).
6. Concerned Person at DST-SERB.
7. Office Copy/Project File.
8. Institute Notice Boards.



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Application Form for JRF at ECE Department: DST-SERB Project 2017

Personal Details

1.	Name (in block letters):		Affix a Passport size Photograph
2.	Father's Name:		
3.	Date of Birth:		
4.	Place of Birth:		
5.	Contact Number (s):		
6.	Email Address:		
7.	Gender:		
8.	Address for correspondence: (Complete Address with pincode)		
9.	Permanent Address: (Complete Address with pincode)		
10.	Category (Gen./OBC/SC/ST):		

Educational Details

(In reverse Chronological order i.e. starting with highest degree first)

Degree	Subjects	University/Institution	Year	Grade or % of marks

Experience Details (Teaching/ Industry/ Research)

(In reverse Chronological order i.e. starting with latest experience first)

S. No.	Organization	Nature of Work	Duration	Salary

Details of GATE Qualification

Qualification Year	
Discipline	
Score	
Rank	
Marks Obtained	
Validity	

Other Details

Details of Professional Skills	
Title of M. Tech Dissertation	
How the above position is helpful in meeting your career goal (Max 250 words)	
Details of Research Publications (If any)	Attached a separate sheet
Any other relevant information	
References (Two) (Name of two referees who are familiar with your academic and research background)	

I hereby declare that the above information is correct to the best of my knowledge and belief. I understand that my candidature will be cancelled if any information is found incorrect at any given period of time.

(Signature)

Name of the Candidate:

Date:

Place: