



**National Agri-Food Biotechnology Institute (NABI)**  
**(Dept. of Biotechnology, Ministry of Science & Technology, Govt. of India)**  
**Sector-81, Knowledge City, Manauli P.O, S.A.S. Nagar-140306, Punjab, India.**  
**Website: [www.nabi.res.in](http://www.nabi.res.in)**

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**Walk In Interview for the temporary Positions of Research Associate-I, Senior Research Fellow & Junior Research Fellows**

National Agri-Food Biotechnology Institute (NABI) is an autonomous Institute under Department of Biotechnology, Government of India. NABI aims at catalysing the transformation of Agri-food sector in India by being a nodal organization for knowledge generation and translational science leading to value-added products based on Agri-Food biotech innovations for improved household nutritional security. Since its inception in 2010, NABI is involved in research activities for the Bio fortification, development of designer crops for improved nutrition, providing sustainable and novel solutions towards quality food and nutrition, and development of evidence based functional foods to counter malnutrition. Food and nutritional Biotechnology division at **NABI requires following research personnel purely on temporary basis.**

1. **Name of project:-**

**“Developing sheath blight tolerance in rice using Genome editing” (Project Grant GAP-32)**

**Principal Investigator**

Dr. T. R. Sharma, Executive Director.  
National Agri-Food Biotechnology Institute (NABI)

**Co- Principal Investigator:-**

Dr. Humira Sonah, Ramalingaswami Fellow

**Research Positions (Temporary):-**

**Research Associate-I**

**Duration:-**

Till 26<sup>th</sup> June, 2022)

**Essential qualification:-**

Ph.D in plant biotechnology/agriculture biotechnology/plant breeding and genetics or equivalent degree in related subject..

**Desired Experience**

Experience in plant or agricultural biotechnology, plant tissue culture, rice or any other crop plant transformation, genome editing, genomics/bioinformatics.

**Emoluments:-**

Rs. 47000/- per month plus 8% HRA. (As per DST OM No. SR/s9/Z-08/2018 dated 30.01.2019)

**Age limit:-**

40 Years as on date of interview. (Relaxation is admissible in case of SC/ST/OBC/PD as per GOI Instructions)

**2. Junior Research Fellow (Own Fellowship) (One Position)****Essential Qualifications:-**

Post Graduate Degree in Basic Science OR Graduate /Post Graduate Degree in professional qcourse selected through a process described through any one of the following:-

Scholars who are selected through National Eligibility Tests-CSIR-UGC-NET including Lectureship (Assistant Professorship) and GATE

The selection process through National Level examinations conducted by central government departments and their agencies and institutions such as DST,DBT,DAE,DOS,DRDO,MHRD,ICAR,ICMR,IIT,IISc,IISER etc.

**Principal Investigator**

Dr. Humira Sonah, Ramalingaswami Fellow.

**Desired Experience:-**

Experience in Plant Science, Botany, Biotechnology, tissue culture.

**Emoluments :-**

As per fellowship granting agency.

**Responsibilities:-**

Tissue culture, bioinformatics and molecular biology.

**3. Junior Research Fellow (Own Fellowship) (One Position)**

**Essential Qualifications:-**

Post Graduate Degree in Basic Science OR Graduate /Post Graduate Degree in professional course selected through a process described through any one of the following:-

Scholars who are selected through National Eligibility Tests-CSIR-UGC-NET including Lectureship (Assistant Professorship) and GATE

The selection process through National Level examinations conducted by central government departments and their agencies and institutions such as DST,DBT,DAE,DOS,DRDO,MHRD,ICAR,ICMR,IIT,IISc,IISER etc.

**Principal Investigator**

Dr. Rupesh Deshmukh, Ramalingaswami Fellow.

**Desired Experience:-**

Experience in Plant Science, Botany, Biotechnology, tissue culture.

**Emoluments :-**

As per fellowship granting agency.

**Responsibilities:-**

Tissue culture, bioinformatics and molecular biology.

4. **Name of project:-**

**“Understanding the molecular basis of selective transport of silicon and arsenic by modulating nodulin 26-like intrinsic protein 2-1 (NIP2-1) in rice (Oryza sativa)” (Project Grant)**

**Principal Investigator**

Dr. Rupesh Deshmukh, Ramalingaswami Fellow.

**Research Positions (Temporary):-**

Senior Research Fellow

**Duration:-**

Till 16<sup>th</sup> December, 2022)

**Qualification:-**

Post graduate degree in Basic Science Or Graduate/Post Graduate in professional course selected through a process described through any one of the following

a) Scholars are selected through National Eligibility Tests-CSIR UGC NET including Lectureship (Assistant Professorship) and GATE.

b) The selection process through National level examinations conducted by Central Government Departments and their agencies and institutions such as DST, DBT,DAE,DOS,DRDO,MHRD,ICAR,ICMR,IIT,IISc,IISER etc.

**Essential Qualification:-**

Qualification prescribed for JRF with two years of research experience.

**Desired Qualification**

Research training in bioinformatics, expertise with molecular dynamic simulations, generating proper parameters of the force field.

**Emoluments:-**

Rs. 35000/- per month plus HRA. (As per DST OM No. SR/s9/Z-08/2018 dated 30.01.2019)

**Age limit:-**

35 Years as on date of interview. (Relaxation is admissible in case of SC/ST/OBC/PD as per GOI Instructions)

5. **Name of project:-**

**Improvement of nutritional and processing quality in wheat.**

(Core Grant)

**Principal Investigator**

Dr. Monika Garg, Scientist E

**Research Positions (Temporary):-**

Junior Research Fellow (One )

**Essential Qualification:-**

Post graduate degree in Basic Science Or Graduate/Post Graduate in professional course selected through a process described through any one of the following

a) Scholars are selected through National Eligibility Tests-CSIR UGC NET including Lectureship (Assistant Professorship) and GATE.

b) The selection process through National level examinations conducted by Central Government Departments and their agencies and institutions such as DST, DBT,DAE,DOS,DRDO,MHRD,ICAR,ICMR,IIT,IISc,IISER etc.

**Emoluments:-**

Rs. 31000/- per month plus HRA. (As per DST OM No. SR/s9/Z-08/2018 dated 30.01.2019)

**Age limit:-**

28 Years as on date of interview. (Relaxation is admissible in case of SC/ST/OBC/PD as per GOI Instructions)

6. **Name of project:**

**High resolution QTL mapping for iron (Fe), zinc (Zn), grain protein, and phytate content and their introgression in high yielding wheat cultivars**

**Name of Principal Investigator:-** Dr. Joy K. Roy, Scientist-F National Agri-Food Biotechnology Institute (Mohali)

**Research Positions (Temporary):-** Junior Research Fellow (JRF)

**Duration:-** Till March, 2022

**Project summary:-** This is a NABI's flagship program, which is funded by Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India. The

network project “Development of Bio-fortified and Protein-rich Wheat” will be executed in collaboration among seven networkpartners. The project will include i) evaluation of wheat germplasm for Fe, Zn, folate, and grain protein content, starch quality and antinutritional factors, ii) Validation and characterization of available genes/QTLs/markers for micronutrients, iii) Development of mapping populations (F2, RILs, NILs, BCs) for genetic analysis, iv) Development of high density linkage maps and QTL maps using high throughput SNPs, v) Epistatic interactions (QTLxQTL, QTL x environment) analysis, and vi) development of wheat varieties with enhanced micronutrient content and enhanced bioavailability and bio-accessibility

**Manpower:-** Junior Research Fellow (JRF) 01 Position

**Essential Qualification:-**

Post graduate degree in Basic Science Or Graduate/Post Graduate in professional course selected through a process described through any one of the following

a) Scholars are selected through National Eligibility Tests-CSIR UGC NET including Lectureship (Assistant Professorship) and GATE.

b) The selection process through National level examinations conducted by Central Government Departments and their agencies and institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER etc.

**Emoluments and eligibility is as per DST OM SR/S9/Z-08/2018 dated 30th January, 2019**

**Desired Qualifications:-**

Research training in molecular breeding, DNA-based molecular marker development, linkage mapping, QTL mapping, mapping population development (RIL, F2, backcross).

**Emoluments:-** 31,000/-PM+16% HRA

**Responsibilities:-** Crossing for development of pre-breeding and biparental mapping populations for high iron, zinc, low phytate and grain protein content in wheat; development of association mapping panel in wheat for high iron, zinc, low phytate; DNA and RNA extraction; PCR reaction, SSR and SNP genotyping; phenotyping of micronutrients in wheat; qRT-PCR and sequencing; Off-season growing of plants in green house and plant growth chambers and at off-season stations in HP; multi-location field experiments; biochemical analysis; molecular biology works, large scale population analysis, etc.

**Age:-** 28 years (Relaxation is admissible in case of SC/ST/OBC/PD and women candidates as per GOI instructions)

### **Application and Selection Process:-**

All interested candidates may appear for Walk-In Interview at National Agri-Food Biotechnology Institute (NABI) located at Knowledge City Sector-81, Mohali 140306 on - **10<sup>th</sup> February, 2020 ( Monday ) at 0900 hrs along-with duly filled Application form (Mandatory)** available on the website [www.nabi.res.in](http://www.nabi.res.in). The duly filled application form must be submitted at the time of registration at NABI from **09:00 hrs to 10:00 hrs on above mentioned date and time.** The candidates must ascertain their eligibility before applying; as ineligible candidates will not be interviewed. All the candidates are requested to appear for the interview with full CV, thesis/project report, publications and original degree certificates and transcripts. No TA/DA will be paid for appearing in the interview. Canvassing in any form or bringing influence, political or otherwise, will lead to disqualification of the candidate(s).