



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

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**Walk In Interview for the Positions of Research Associate (RA), Senior
Research Fellow (SRF)**

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.

Name of project: "High resolution QTL mapping from iron(Fe), zinc(Zn), grain protein, and phytate content and their introgression in high yielding wheat cultivators"

Name of Project Coordinator:-

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

Name of Principal Investigator:-

Dr. Joy K. Roy, Scientist-F
National Agri-Food Biotechnology Institute (Mohali)

Research Positions (Temporary):-

Research Associate (RA-I), Senior Research Fellow (SRF).

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 network partners. The project will include i) evaluation of wheat germplasms 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. The manpower detail and responsibility is given below:

Manpower:- Research Associate (RA-I) **01 Position**

Essential qualification:- PhD/ MD/MS/MDS or equivalent degree or having three years of research, teaching and design and development experience after MVSc/M.Pharm/ME/M.Tech with at least one research paper in Science Citation Index (SCI) Journal.

Desired Experience:- Experience in plant or agricultural biotechnology, classical breeding & molecular breeding, marker (SSR & SNP) development, QTL mapping, association mapping, gene introgression, genomics and functional genomics tools such as NGS data analysis and gene expression analysis.

Emoluments:- 47,000/- + 16% HRA

Responsibilities:- Experience candidates are required for RA positions for Gene introgression and development of pre-breeding materials for QTL mapping for high iron, zinc, low phytate and grain protein content; SNP identification, linkage and association analysis; Bioinformatics and biostatistical analysis of sequence data and phenotypic data in wheat; etc.

Manpower:- Senior Research Fellow (SRF) **01 Position**

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 for Senior Research Fellow- Qualification prescribed above with two years of research experience.

Desired Experience:- Training in agricultural biotechnology, preferably in marker development, QTL mapping, Association mapping.

Emoluments:- 35,000/-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: 40 years for RA and 32 years for Senior Research Fellow (Relaxation is admissible in case of SC/ST/OBC/PD as per GOI instructions)

Application and Selection Process:-

1. All interested candidates may appear for walk-in-interview at NABI located at Knowledge City, Sector-81, Mohali-140306, Punjab, India on **25th September, 2019 at 09:00 AM** along with duly filled application form available on the website www.nabi.res.in.
2. The duly filled application form must be submitted at the time of registration at NABI 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.
4. No TA/DA will be paid for appearing in the interview.
5. The selected candidate will be informed by e-mail and the result will be uploaded at NABI's website.