राष्ट्रीय कृषि-खाद्य जैवप्रौद्योगिकी संस्थान

(जैव-प्रौद्योगिकी विभाग, विज्ञान एवं प्रौद्योगिकी मंत्रालय, भारत सरकार)

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वेबसाइट: **www.nabi.res.in**.

**विज्ञापन संख्या. नाबी/प्रशासन/5(09)/2024-25/शैक्षणिक-7**

जूनियर रिसर्च फैलो, सीनियर रिसर्च फैलो, परियोजना सहायक, परियोजना सहायक-II और वरिष्ठ परियोजना सहायक के अस्थाई पदों के लिए प्रत्यक्ष/ऑनलाइन साक्षात्कार

**राष्ट्रीय कृषि-खाद्य जैवप्रौद्योगिकी संस्थान (नाबी) भारत सरकार के जैव प्रौद्योगिकी विभाग के अंतर्गत एक स्वायत्त संस्थान है। नाबी का उद्देश्य बेहतर घरेलू पोषण सुरक्षा प्रदान करने के लिए कृषि-खाद्य जैव प्रौद्योगिकी में नवाचारों पर आधारित मूल्यवर्धित उत्पादों की ओर ले जाने के लिए ज्ञान सृजन और अनुप्रयुक्त विज्ञान का एक नोडल संगठन होने के नाते भारत के कृषि-क्षेत्र में परिवर्तन को उत्प्रेरित करना है। 2010 में स्थापना के बाद से, नाबी जैविक सुदृढ़ीकरण, बेहतर पोषण के लिए डिज़ाइनर फसलों के विकास, गुणवत्तापूर्ण भोजन और पोषण के लिए स्थायी एवं नए समाधान प्रदान करने तथा कुपोषण से लड़ने के लिए साक्ष्य-आधारित कार्यात्मक खाद्य पदार्थों का विकास के लिए अनुसंधान गतिविधियों में कार्यरत है। नाबी में खाद्य और पोषण जैव प्रौद्योगिकी अनुभाग को अस्थायी आधार पर निम्नलिखित अनुसंधान कर्मियों की आवश्यकता है।**

National Agri-Food Biotechnology Institute (NABI) is an autonomous Institute under the Department of Biotechnology, Government of India. NABI aims at catalysing the transformation of the 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 Biofortification, the development of designer crops for improved nutrition, providing sustainable and novel solutions for quality food and nutrition, and the development of evidence-based functional foods to counter malnutrition. The food and nutritional Biotechnology division at **NABI requires the following research personnel purely on a temporary basis.**

1. **Project title: Translating TRPM8-mediated pharmacological cold mimicking into obesity prevention and therapeutics (NABI core)**

**Junior Research Fellow (One position)**

**Principal Investigator:** Dr. Mahendra Bishnoi, Scientist-E

**Sponsoring Agency:**  NABI core grant **(**Department of Biotechnology)

**Essential Qualifications: -**

1. 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: -
2. Scholars who are selected through National Eligibility Tests-CSIR-UGC-NET including Lectureship (Assistant Professorship), GATE and GPAT
3. 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.

**Duration: -** Appointment is co-terminus with the project.

**Desired Experience: -** Experience in working with rodents especially mice (injection and surgical techniques, primary cell culture techniques, real time RT-PCR, western blotting, immunohistochemistry with strong knowledge in basic concepts of neuroscience and metabolism research. Working knowledge of formulation development and its characterization will be helpful. Basic understanding of data analysis tools like Graphpad Prism and other bioinformatics tools will be plus.

**Responsibilities: -** Selected candidate will work in close association with the PI on the project to understand the role of sympathetic innervations and somatosensory pathways in menthol induced pharmacological cold mimicking. Candidate will also be responsible to manage day to day activities for the successful execution of the project, designing of the experiments, data analysis, manuscript writing and progress report preparation.

**Emoluments: -** Rs. 31,000/- per month plus HRA (As per DST OM No.SR/S9/Z08/2018 dated 30.01.2019)

**Age limit: -** 28 Years (Relaxation is admissible in case of SC/ST/OBC/PD as per GOI Instructions)

**Contact Details:-** Project Investigator: Dr. Mahendra Bishnoi, Scientist E Email: - mbishnoi@nabi.res.in; Contact no. +91 172 522 1261

1. **Project title: *In-vitro* and *in-vivo* functional evaluation of nutritionally rich bio-fortified varieties (ICAR-CRP Biofortification) (GAP 73)**

**Junior Research Fellow (One position)**

**Principal Investigator:** Dr. Mahendra Bishnoi, Scientist-E

**Sponsoring Agency:**  ICAR-CRP program on bio-fortification

**Essential Qualifications: -**

1. 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: -
2. Scholars who are selected through National Eligibility Tests-CSIR-UGC-NET including Lectureship (Assistant Professorship), GATE and GPAT
3. 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.

**Duration: -** Appointment is co-terminus with the project.

**Desired Experience: -** Experience in working with cell lines for bioavailability and other related assays. Understanding of iron and zinc homeostasis in humans and rodents with focus on biomarkers associated with their deficiency. Basic understanding of data analysis tools like R and Graphpad Prism and other bioinformatics tools will be plus.

**Responsibilities: -** Selected candidate will work in close association with the PI on the project to understand the role TRPA1 on gut hormone release through enteroendocrine cells in stomach and colon. Further, he will link these findings to the development of ghrelin resistance and its prevention. Candidate will also be responsible to manage day to day activities for the successful execution of the project, designing of the experiments, data analysis, manuscript writing and progress report preparation.

**Emoluments:-** Rs. 35,000/- per month (As per DST OM No.SR/S9/Z08/2018 dated 30.01.2019)

**Age limit: -** 28 Years (Relaxation is admissible in case of SC/ST/OBC/PD as per GOI Instructions)

**Contact Details:-** Project Investigator: Dr. Mahendra Bishnoi, Scientist E Email: - mbishnoi@nabi.res.in; Contact no. +91 172 522 1261

1. **Project Title: Microbiome data mining to discover novel patterns. ()**

**Principle Investigator:** Dr. Shrikant Mantri, Scientist-F

**Available Position:** Project Assistant (01)

**Duration:** The appointment will be initially for one year as Project Assistant or till the termination of the project whichever is earlier. Continuation of appointment for the next year will be on the basis of submission of progress report and further assessment. The appointment is co-terminus with the project along with availability of funds. It will not exceed beyond project.

**Essential Qualification: -**

M.Sc in Bioinformatics/Biotechnology/Microbiology/Life Sciences or B. Tech in Biochemistry/Biotechnology with minimum 55% marks.

**Emoluments and eligibility**: - As per DST OM No. SR/S9/Z-05/2019 dated 10.07.2020

**Desirable Experience: -**

We seek an enthusiastic scholar with a Masters in Bioinformatics/Biotechnology/Microbiology/Life Sciences or closely related disciplines with experience and interests in bioinformatics analyses. The project is focusing on multi-omics big-data mining. Candidates are expected to have a solid foundation with the Linux/Unix command line and basic programming skills.

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

**Emoluments:** Rs. 20000/- per month Plus HRA as per project.

**Contact Details:-** Project Investigator: Dr. Shrikant Mantri, Scientist-F Email: - shrikant@nabi.res.in; Contact no +91 172 522 1180

1. **Project Title:** Prions as stress sensors in plants: Role of DNA/RNA binding proteins in regulating stress memory (HGK-IYBA project)

**Principle Investigator:** Dr. Charanpreet Kaur, Scientist-D

**Positions:** Project Associate II

**Duration:**  Six months (Till 15 February 2025)

**Essential Qualification:** Postgraduate degree in Basic Science or Graduate/Postgraduate in Botany/Microbiology/Agriculture/Bioinformatics/Biotechnology/Biochemistry and other fields in Life Sciences

Selected via a process described through any one of the following:

a) Scholars 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.

*Minimum of two years of research experience is essential*.

**Desirable qualifications**: Candidate with experience in techniques such as cloning, protein purification, yeast-two hybrid, and using CRISPR/Cas system-mediated rice transformation will be preferred.

**Age limit**: 35 years

**Emoluments:** Rs. 35000/- per month Plus HRA as per project

**Desirable qualification:** Research experience in molecular biology, microbiology and plant physiology.

**Contact Details:-** Project Investigator: Dr. Charanpreet Kaur, Scientist-D, Email:- charanpreet.k@nabi.res.in; Contact no. +91 172 522 1248

1. **Project:** Functional genomics evaluations of candidate genes responsible for starch quality in wheat(own fellowship)

**Junior Research Fellow (JRF) with own fellowship (One number)**

**PhD registration will be through:** DBT-RCB, Faridabad or Punjab University, Chandigarh

**Maximum duration:** 5 years (JRF for 2 years and will be converted to SRF after evaluation)

**Area of research:** Molecular breeding and molecular biology

**Date of commencement:** September, 2024

**Principal Investigator:** Dr Joy K. Roy, Scientist-F

**Project Summary:** The project activities are given below:

i) Characterization of novel candidate genes associated with starch quality.

ii) Functional analysis using functional genomics approaches such as overexpression and/or gene knockout or knock down systems

iii) Phenotyping of starch related on the wheat lines at multi-locations within India.

**Essential Qualifications:**

1. Post Graduate Degree in Basic Science OR Graduate/Post Graduate Degree in professional course.

2. Candidates who have own fellowship selected through National Eligibility Tests such as CSIR-JRF, UGC-JRF, DBT, etc.

**Desirable qualifications:**

Proven experience in agricultural biotechnology and plant molecular biology

**Own Fellowship:** Rs.37,000/- per month (plus HRA, if hostel accommodation is not available in NABI).

**Age limit:** 28 Years (Relaxation is admissible in case of SC/ST/OBC/PD/EWS/ women and/or as per GOI Instructions)

Eligibility criteria and fellowship and other conditions will be as per DST, GOI OM No. DST/PCPM/Z-06/2022 dated 26/6/2023

**Contact Details:-** Project Investigator: Dr Joy K Roy, Scientist- F, Email:- joykroy@nabi.res.in; Contact no. +91 172 522 1206

1. **Project title: Improvement of nutritional quality of wheat**

**Junior Research Fellow (One position) (Own fellowship)**

**Principal Investigator:** Dr. Monika Garg, Scientist-F

**Essential Qualifications: -**

1. Post Graduate Degree in Basic Science OR Graduate/Post Graduate Degree in professional course.

2. Candidates who have own fellowship selected through National Eligibility Tests such as CSIR-JRF, UGC-JRF, DBT, etc.

**Maximum duration:** 5 years (JRF for 2 years and will be converted to SRF after evaluation) .

1. **Desired Experience: -** Prior research or training experience in the field of Agricultural biotechnology or bioinformatics.

**Responsibilities: -** Selected candidate will work in close association with the PI on the project to understand the nutritional components diversity in wheat, their biosynthetic pathway, breeding and human health impact studies. Candidate will also be responsible to manage day to day activities for the successful execution of the project, designing of the experiments, data analysis, manuscript writing and progress report preparation.

**Own Fellowship:** Rs.37,000/- per month (plus HRA, if hostel accommodation is not available in NABI).

**Age limit:** 28 Years (Relaxation is admissible in case of SC/ST/OBC/PD/EWS/ women and/or as per GOI Instructions)

Eligibility criteria and fellowship and other conditions will be as per DST, GOI OM No. DST/PCPM/Z-06/2022 dated 26/6/2023

**Contact Details:-** Project Investigator: Dr. Monika Garg, Scientist-F, Email:- monikagarg@nabi.res.in; Contact no. +91 172 522 1205

1. **Project title: *Development and Characterization of colored cereals* (ICAR-CRP Biofortification) GAP 73**

**Senior Research Fellow (One position)**

**Principal Investigator:** Dr. Monika Garg, Scientist-F

**Sponsoring Agency:**  ICAR-CRP program on bio-fortification

**Essential Qualifications: -**

1. 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: -
2. Scholars who are selected through National Eligibility Tests-CSIR-UGC-NET including Lectureship (Assistant Professorship), GATE and GPAT
3. 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.
4. 2 year prior experience as JRF.

**Duration: -** Appointment is co-terminus with the project.

**Desired Experience: -** Experience in working with plant genetics/breeding/ biochemistry.

Basic understanding of data analysis tools and other bioinformatics tools will be plus.

**Responsibilities: -** Selected candidate will work on genetics and breeding for colored wheat and biochemical analysis of anthocyanin and antioxidants in colored wheat and rice. Candidate will also be responsible to manage day to day activities for the successful execution of the project, designing of the experiments, data analysis, manuscript writing and progress report preparation.

**Emoluments: -** Rs. 42,000/- per month (plus HRA, if hostel accommodation is not available in NABI) (GOI OM No. DST/PCPM/Z-06/2022 dated 26/6/2023).

**Age limit: -** 32 Years (Relaxation is admissible in case of SC/ST/OBC/PD as per GOI Instructions)

**Contact Details:-** Project Investigator: Dr. Monika Garg, Scientist-F, Email:- monikagarg@nabi.res.in; Contact no. +91 172 522 1205

1. **Project Title: “**Diet, Gut Microbiota, and Epigenetics in Type 2 Diabetes: Ameliorative Potential of Exosome-Based Therapies”  **(Own Fellowship)**

**Principal Investigator:** Dr Nitin Kumar Singhal, Scientist-E

**Positions:** Junior Research Fellow (01) (Own Fellowship)

**PhD registration:** IISER-Mohali/DBT-RCB, Faridabad/Punjab University, Chandigarh

**Duration:** 5 years (Two years of JRF and will be converted to SRF after evaluation as per the funding agency guidelines)

**Project Summary:** The project activities are given below:

1. Interplay of Diet, Gut Microbiota, and Epigenetics in Type 2 Diabetes

2. Mechanisms of Epigenetic Regulation in T2D

3 Exosome-Based Therapeutics for T2D

**Essential Qualifications:**

i) Post graduate degree in basic Science OR Graduate /Post Graduate Degree in professional course and

ii) Having own fellowship for 5 years from different funding agencies such as UGC, CSIR, DST, DBT, etc.

**Area of research:** Diabetes, Biochemistry, Metabolic disorder

**Age limit:** 28 Years (Relaxation is admissible in case of SC/ST/OBC/PD/EWS/ women and/or as per GOI Instructions)

**Contact Details:-** Project Investigator: **:** Dr Nitin Kumar Singhal, Scientist-E, Email:- nitin@nabi.res.in; Contact no. +91 172 522 1243

1. **Project:** Accredited Test Laboratory (ATL) under National Certification System for Tissue Culture Raised Plants (NCS-TCP) at National Agri-Food Biotechnology Institute (NABI), Mohali (Punjab).”

**Funding Agency:** DBT

Principal Investigator: Dr. Siddharth Tiwari, Scientist F

Duration: Till Project i.e. 31.09.2026 or till the termination of the project

**Temporary Position:** Senior Project Associate

**No. of Position:** One

**Essential Qualification:**

(i) Master's Degree in Natural or any branch of Biology/Agricultural Sciences / MVSc or bachelor's degree in Engineering or Technology or Medicine from a recognized University or equivalent; and

(ii) Four years' experience in Research and Development in Industrial and Academic Institutions or Science and Technology Organisations and Scientific activities and services

**OR**

Doctoral Degree in Science / Engineering /Technology/ Pharma / MD / MS from a recognized University or equivalent

Master’s Degree in Natural or any branch of Biology/Agricultural Sciences/MVSc or Bachelor’s degree in Engineering or Technology or Medicine from a recognized University or Equivalent

**Desirable:**

Prior work experience and understanding of plant tissue culture, plant genetic engineering, biochemical and molecular biology techniques

**Emoluments:** Senior Project Associate will be hired as per the emoluments’ guidelines and service conditions notified by DST (OM No.SR/S9/Z-05/2019 dated 21.08.2019) (Rs. 42,000/- + HRA per month)

**Upper Age Limit:** The age limit will be 40 years (Relaxation is admissible in case of SC/ST/OBC/women/physically disabled as per government of India instructions).

**Contact Details:-** Project Investigator: **:** Dr. Siddharth Tiwari, Scientist F

, Email:- siddharth@nabi.res.in; Contact no +91 172 522 1138

**आवेदन प्रक्रिया और अन्य शर्तें**

**Application Procedure & Other Conditions**

1. सभी इच्छुक उम्मीदवार वेबसाइट www.nabi.res.in पर उपलब्ध विधिवत भरे हुए आवेदन पत्र के साथ **03.09.2024 को सुबह 09:00 बजे नॉलेज सिटी, सेक्टर-81, मोहाली, पंजाब(भारत)-140306** स्थित राष्ट्रीय कृषि-खाद्य जैव प्रौद्योगिकी संस्थान में प्रत्यक्ष साक्षात्कार के लिए उपस्थित हो सकते हैं।

1. All interested candidates may appear for Walk-In-Interview at **National Agri-Food Biotechnology Institute located at Knowledge city, Sector-81, Mohali - 140306, Punjab on 03.09.2024 at 09:00 A.M.** along with the duly filled application form available on the website [**www.nabi.res.in**](http://www.nabi.res.in).

2. अपूर्ण आवेदन पत्र और उचित प्रारूप में न होने वाले आवेदनों को तुरंत अस्वीकार किया जा सकता है।

2. Incomplete application forms and applications that are not in proper format may be summarily rejected.

3. आवेदन पत्र निर्धारित प्रारूप के अनुसार ही प्रस्तुत किए जाने चाहिए, जिसे नाबी की वेबसाइट से डाउनलोड किया जा सकता है।

3. The applications should be submitted strictly as per the prescribed format that can be downloaded from the NABI website.

4. एक से अधिक विकल्पों के लिए आवेदन करने वाले उम्मीदवार एक ही आवेदन में कई विकल्पों पर टिक करके अपनी प्राथमिकता दे सकते हैं। प्रत्येक विकल्प के लिए अलग से आवेदन पत्र जमा करने की आवश्यकता नहीं है।

4. Candidates applying for more than one option can give their preference in the same application by ticking multiple options. No need to submit a separate application form for each option.

5. उम्मीदवारों को यह सुनिश्चित करना चाहिए कि आवेदन पत्र में उल्लिखित जानकारी सही है। एक बार आवेदन पत्र जमा हो जाने के बाद आवेदन पत्र में किसी भी परिवर्तन/जानकारी के संबंध में आगे कोई अनुरोध नहीं माना जाएगा।

5. Candidates should ensure that information mentioned in the application form is accurate. Once the application form is submitted no further request regarding any changes/ information in the application form will be considered.

6. विधिवत भरा हुआ आवेदन पत्र **03.09.2024 को प्रातः 09:00 बजे से प्रातः 10:00** बजे तक नाबी में पंजीकरण के समय जमा किया जाना चाहिए।

6. The duly filled application form must be submitted at the time of registration at NABI from **09:00 AM to 10:00 AM on 03.09.2024**.

7. उम्मीदवारों को आवेदन करने से पहले अपनी पात्रता सुनिश्चित करनी चाहिए, क्योंकि अयोग्य उम्मीदवारों का साक्षात्कार नहीं लिया जाएगा।

7. The candidates must ascertain their eligibility before applying, as ineligible candidates will not be interviewed.

8. सभी उम्मीदवारों से आवेदन पत्र, अनुभव प्रमाण पत्र, प्रकाशन और मूल डिग्री प्रमाण पत्र और प्रतिलेख के साथ प्रत्यक्ष साक्षात्कार के लिए उपस्थित होने का अनुरोध किया जाता है।

8. All the candidates are requested to appear for a Walk-In interview with an application form, experience certificates, publications, and original degree certificates and transcripts.

9. साक्षात्कार के समय सत्यापन के लिए मूल मार्कशीट, प्रमाण-पत्र, पुरस्कार/फैलोशिप आदि अवश्य साथ लेकर आएँ और आवेदन पत्र के साथ **दस्तावेजों की सत्यापित प्रतियों का एक सेट** संलग्न करें।

9. Original mark sheets, certificates, award/fellowship, etc must be accomplished for verification at the time of the interview, and attach **one set of attested copies of the documents** with the application form.

10. साक्षात्कार में उपस्थित होने के लिए कोई टीए/डीए नहीं दिया जाएगा।

10. No TA/DA will be paid for appearing in the interview.

11. किसी भी प्रकार से पक्ष की माँग करने या राजनीतिक अथवा अन्य प्रभाव डालने का परिणाम

उम्मीदवार(ओं) को अयोग्य घोषित करना होगा।

11. Canvassing in any form or bringing influence, political or otherwise, will lead to disqualification of the candidate(s).

12. उम्मीदवारों को कोविड-19 पर विश्व स्वास्थ्य संगठन और केंद्र सरकार/राज्य सरकार द्वारा जारी दिशा-निर्देशों का सख्ती से पालन करना चाहिए।

12. Candidates should strictly adhere to guidelines issued by World Health Organization and Centre Govt/State Govt on Covid-19.

13. विशेष परिस्थितियों में, उम्मीदवार परियोजना अन्वेषक से (ईमेल के माध्यम से) ऑनलाइन साक्षात्कार करवाने का अनुरोध कर सकते हैं। ऐसे अनुरोधों को पहले से ही प्रस्तुत किया जाना चाहिए, अधिमानतः निर्धारित साक्षात्कार तिथि से कम से कम एक सप्ताह पहले। हालाँकि, अंतिम निर्णय चयन समिति द्वारा विशेष परिस्थितियों का पता लगाने और उम्मीदवार (उम्मीदवारों) को ऑनलाइन साक्षात्कार के लिए अनुमति देने पर लिया जाएगा। संस्थान ऑनलाइन/ऑफ़लाइन माध्यम से साक्षात्कार आयोजित करने का अधिकार सुरक्षित रखता है।

13. In the event of special circumstances, candidates may request the project investigator (via email) to conduct their interviews online. Such requests must be submitted well in advance, preferably at least one week prior to the scheduled interview date. However, the final decision will be taken by the selection committee to ascertain the special circumstances and allow the candidate (s) for an online interview. The Institute reserves the right to conduct the interview in online/offline mode.

**नोटः साक्षात्कार की तिथि से कम से कम दो सप्ताह पहले पीआई से ऑनलाइन साक्षात्कार के लिए अनुरोध किया जा सकता है, तथा इसके लिए वैध कारण भी बताना होगा।**

**Note: Permission for online interview may be sought from the PI at least two weeks prior to the interview date and a valid reason must be given for the same.**

**(प्रबंधक प्रशासन)**

**(Manager Administration)**