राष्ट्रीय कृषि-खाद्य जैवप्रौद्योगिकी संस्थान

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

नॉलेज सिटी, पी.ओ. मनोली, सेक्टर-81, एस.ए.एस नगर, मोहाली, पंजाब(भारत)-140306

वेबसाइट: **www.nabi.res.in**.

**विज्ञापन संख्या. नाबी/प्रशासन/5(09)/2025-26/शैक्षणिक-03**

**कनिष्ठ अनुसंधान अध्येता (03), अनुसंधान सहयोगी(03) और परियोजना सहायक (01) के अस्थाई पद के लिए प्रत्यक्ष/ऑनलाइन साक्षात्कार**

**Walk-in/Online Interview for the Position of Junior Research Fellow(03), Project Associate(03) and** **Project Assistant (01).**

**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 Bio-fortification, 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.**

# Project Title:“Valorisation of pectic oligosaccharides from juice industry waste for functional food product development.”(GAP-87)

# Principle Investigator: Dr. Koushik Mazumder, Scientist-EPositions: Junior research Fellow (one positions)

# Duration: 3 years or till the termination of the project whichever is earlier. The appointment will be initially for one year. Further up-gradation will be on the basis of the submission of a progress report and further assessment.

**Essential Qualification:** 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: -

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

b. The selection process through National Level examinations conducted by central government departments and their agencies and institutions such as DST, DBT, ICMR, etc.

**Desirable Experience:** Prior experience in bio-polymer chemistry and food technology will be preferred. Experience in extraction of biopolymers, chemical and biochemical characterization of biopolymers and food product development.

**Job profile:**

1. JRF will be responsible for extraction and characterisation of pectin from juice industry waste.
2. JRF will be responsible for production (lab and semi-pilot scale), purification and structural characterisation of pectic oligosaccharides (POS).
3. JRF will be responsible for development and evaluation of quality attributes of functional food product based on POS.
4. JRF will be responsible for evaluation of health benefits of functional food product (synbiotic yoghurt) by *in vitro* and *in vivo* model.

**Emoluments:** Rs.37,000/- per month (As per DST PCPM/Z-06/2022 dated 26th June, 2023) plus HRA.

**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. Koushik Mazumder, Scientist-E email: koushik@nabi.res.in contact no. 0172-5221244.

# Project Title: “Exploring marine microalgae-derived pigments for the development of nutraceuticals and therapeutics targeting colorectal cancer progression. (ASEAN-India Collaborative R&D, DST India)” (GAP-89)

# Principle Investigator: Dr. Shivraj Nile, Scientist-CPositions: Research Associate-I (One position)

# Duration: The RA fellowship is a purely temporary assignment and is tenable for a period of 1 year only, and in exceptional cases, depending upon the progress of the research, and the performance, the committee may recommend the extension or up-gradation of RA Levels.

**Essential Qualification:-** PhD in Sciences/food sciences/ medicinal and aromatic plants with research experience in isolation, and characterization of microalgae-derived natural pigments with one published research article in peer-reviewed journals.

**Desirable Experience:**

1. Experience in natural product extraction methods (e.g., Soxhlet extraction, ultrasonic-assisted extraction, supercritical fluid extraction).
2. Familiarity with isolation techniques, including chromatography (TLC, HPLC, GC, LC-MS, preparative chromatography) and distillation methods.
3. Proficiency in spectroscopic techniques for characterization (e.g., NMR, FTIR, UV-Vis, Mass Spectrometry).
4. Knowledge of quantification methods for bioactive compounds (e.g., HPLC, spectrophotometry, titrimetric).

**Responsibilities:** Selected individual will play an important role in advancing this research, particularly through planning, designing, and performing experimental work. This individual will work on designing and executing experimental protocols for the extraction, characterization, and functional evaluation of bioactive compounds and natural pigments from algal biomass. The role involves optimizing extraction methods (e.g., ultrasound-assisted or solvent-based techniques), performing chemical analyses using techniques like HPLC, GC-MS, and FTIR, and assessing the bioactivity of the compounds for therapeutic applications. Additionally, the candidate will contribute to formulating functional food prototypes, evaluating their stability and efficacy, and documenting research findings in the form of reports, manuscripts, and patents. Active collaboration with multidisciplinary teams and assisting in grant management and dissemination activities are also key aspects of the role.

**Emoluments:** Rs. 58000/- per month plus HRA. (As per DST OM No. DST/PCPM/Z-06/2022 dated 26.06.2023)

**Age limit:** 40 years. (Relaxation is admissible in the case of SC/ST/OBC/PD and women candidates as per GOI instructions).

**Contact Details:** Project Investigator: Dr. Shivraj Nile, Scientist-C Email: - shivraj.nile@nabi.res.in; Contact no. +91 172 522 1265

# Project Title: “Fortifying banana with polyphenols: Unlocking superior antioxidant benefits.” (GAP-90)

# Principle Investigator: Dr. Sanjana Negi, Scientist-C

# Co-PI: Dr. Shivraj Nile, Scientist-CPositions: Research Associate II (One position)

# Duration: 3 years.

**Essential Qualification:**

Ph.D./MD/MS/MDS or equivalent degree or having 3 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 Indexed (SCI) journal.

**Desirable Experience:** Two-years of research experience in general plant molecular biology-related techniques such as cloning and qPCR, plant tissue culture, banana transformation, or prior experience of using Crispr-cas9 technology.

**Responsibilities:**

1. Plant tissue/cell culture and generation of recombinant vectors.
2. Generation of transgenic lines and their analysis.
3. Phenotypic/ Bio-chemical/ Molecular analysis of plants.

**Emoluments:** Rs. 61000/- per month plus HRA 18% (As per DST OM No. DST/PCPM/Z-06/2022 dated 26.06.2023)

**Age limit:** 40 years (Relaxation is admissible in the case of SC/ST/OBC/PD and women candidates as per GOI instructions)

**Contact Details:** Project Investigator: Dr. Sanjana Negi, Scientist-C, email: sanjana.negi@nabi.res.in contact no. 0172-5221140.

# Project Title: “Fortifying banana with polyphenols: Unlocking superior antioxidant benefits.”(GAP-90)

# Principle Investigator: Dr. Sanjana Negi, Scientist-C

# Co-PI: Dr. Shivraj Nile, Scientist-CPositions: Project Assistant (One position)

# Duration: 3 years.

**Essential Qualification:** B.Sc./3 years of diploma in engineering and technology.

**Desirable Experience:** Prior lab experience.

**Emoluments:** Rs. 20,000/- per month Plus HRA 18% (As per DST OM No. SR/S9/Z-05/2019 dated 10.07.2020)

**Age limit:** 50 years (Relaxation is admissible in the case of SC/ST/OBC/PD and women candidates as per GOI instructions)

**Contact Details:** Project Investigator: Dr. Sanjana Negi, Scientist-C, email: sanjana.negi@nabi.res.in contact no. 0172-5221140.

# Project Title: “Production, characterization, and bioactivity evaluation of antihypertensive and antidiabetic compounds produced during fermentation of selected millet varieties using sequential fermentation by defined microbial consortia” (GAP-91)

# Principle Investigator: Dr. Amit Kumar Rai, Scientist-D

# Positions: Research Associate II (One position)

# Duration: 3 years, The Research Associate II is a purely temporary assignment and is tenable for a period of 3 years or the last date of the project, whichever is earlier.

**Essential Qualification:** PhD in Biotechnology/Microbiology/Life Science/Food Science & Technology/Food Chemistry/ Biochemistry/Pharmacy with at least two research paper in science citation indexed (SCI) journal.

**Desirable Experience:**

1. Experience in microbial fermentation and development of bioactive compounds enriched dairy and/or non-dairy foods using defined microbial strains.
2. Experience in omics analysis, including metabolomics and peptidomics, with meta-omics integration.

**Job profile:**

1. The Research Associate II will work on in-depth omics analyses of traditional fermented millet foods, focusing on metagenomic and metabolomic analysis, which includes comprehensive profiling of the microbial communities and metabolic profiling.
2. The Research Associate II will be responsible for formulating microbial consortia to optimize the production of these fermented foods, followed by detailed bioactivity analysis.
3. The Research Associate II will work on functional validation studies in animal models, specifically assessing the antihypertensive and antidiabetic activities of the developed fermented millet foods.

**Emoluments:** The Research Associate II will be hired with the emoluments of Rs. 61,000/- + 18% HRA.

**Age limit:** The age limit of applicants for Research Associate II will be 40 years as on date of interview. (Relaxation is admissible in case of SC/ST/OBC/women as per government of India instructions).

**Contact Details:** Project Investigator: Dr. Amit Kumar Rai, Scientist-D, email: amit.rai@nabi.res.in contact no. +91 172 522 1266.

# Project Title: “Production, characterization, and bioactivity evaluation of antihypertensive and antidiabetic compounds produced during fermentation of selected millet varieties using sequential fermentation by defined microbial consortia”(GAP-91)

# Principle Investigator: Dr. Amit Kumar Rai, Scientist-D

# Positions: Junior Research Fellow (One position)

# Duration: 3 Years (2-year JRF, 1-year SRF), The JRF is a purely temporary assignment and is tenable for a period of 3 years or the last date of the project, whichever is earlier.

**Essential Qualification:** First Class Post graduate degree in Microbiology/ Biotechnology/ Life Science/ Pharmacy. The candidate should have qualified any one of the national level examinations (CSIR-UGC-NET, GATE, GPAT, ARS, etc).

**Desirable Experience:**

1. Experience in microbial strains handling and screening of strains for substrate biotransformation.
2. Experience in bioactivity analysis and enzyme activity analyses.

**Job profile:**

1. The JRF will be responsible for a diverse range of laboratory tasks, which includes sample collection, DNA extraction, sequencing, and microbial strain isolation, alongside conducting fermentation experiments and other microbiological procedures.
2. The JRF will perform cell line assays and spectrophotometric assays to evaluate the bioactivity of fermented millet foods and their metabolites, contributing to a comprehensive understanding of their biological effects.

**Emoluments:** The JRF will be hired with the emoluments of Rs. 37,000/- + 18% HRA for the first 2 years and Rs. 42,000/- + 18% HRA for the third year.

**Age limit:** The age limit of applicants for JRF will be 28 years as on date of interview. (Relaxation is admissible in case of SC/ST/OBC/women as per government of India instructions).

**Contact Details:** Project Investigator: Dr. Amit Kumar Rai, Scientist-D, email: amit.rai@nabi.res.in, Contact no. +91 172 522 1266.

# Project Title: “Development of Colorimetric Biosensor for the detection of food borne bacteria.”(NABI Core)

# Principle Investigator: Dr. Nitin Kumar Singhal, Scientist-E

# Positions: Junior Research Fellow (One position)

# Duration: The initial appointment will be for a period of one year. Extension beyond this period will be subject to satisfactory performance.

**Essential Qualification:** 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), GATE and GPAT.

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.

**Desirable Experience:-**Candidates with a Master’s degree in Chemistry, Biochemistry, Microbiology, or related disciplines are preferred. Prior experience in nanoparticle synthesis and nanofabrication techniques is highly desirable. Proficiency in bacterial culture and microbiological methods will be considered an added advantage.

**Responsibilities:-** The responsibilities include designing and fabricating biosensor platforms utilizing nanomaterials or biomolecules, and conducting experiments aimed at detecting foodborne pathogens through colorimetric techniques. The role also involves performing bacterial culture, sensitivity analysis, and calibration of the biosensor. Additionally, the candidate will analyze sensor performance in food samples to validate results, and will be responsible for documenting experimental protocols, maintaining laboratory records, and supporting report preparation.

**Emoluments:** Rs. 37,000/- + 18% HRA.

**Age limit:** 28 Years. (Relaxation is admissible in case of SC/ST/OBC/PD 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.

**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 **03.06.2025 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।

All interested candidates may appear for Walk-In-Interview at **National Agri-Food Biotechnology Institute located at Knowledge city, Sector-81, Mohali, Punjab- 140306, on 03.06.2025 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). (Phone No. 0172-5221245)

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

 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।

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

4. एक से अधिक पदों के लिए आवेदन करने वाले उम्मीदवार एक ही आवेदन फार्म में विभिन्न पदनाम लिखकर अपनी प्राथमिकता दे सकते हैं। प्रत्येक पद के लिए अलग से आवेदन पत्र जमा करने की आवश्यकता नहीं है।

Candidates applying for more than one post can give their preference by writing different designations in the same application form.

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।

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 **03.06.2025 को प्रातः 09:00 बजे से प्रातः 10:00** बजे तक नाबी में पंजीकरण के समय जमा किया जाना चाहिए।

The duly filled application form must be submitted at the time of registration at NABI from **09:00 AM to 10:00 AM on 03.06.2025**.

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

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।

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।

**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।

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।

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।

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।

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.

14. साक्षात्कार के परिणाम एनएबीआई वेबसाइट पर प्रकाशित किए जाएंगे।

Interview results will be published on the NABI website.

**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 one week prior to the interview date and a valid reason must be given for the same.**



**(प्रबंधक प्रशासन)**

**(Manager Administration)**