



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 temporary position of Research Associate, Senior Research Fellow
and Junior Research Fellow, Project Associate and Project Assistant**

National Agri-Food Biotechnology Institute (NABI) is an autonomous Institute under the Department of Biotechnology, Government of India. NABI aims at catalyzing 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: BIRAC sponsored Banana Bio fortification project entitled “Development and Transfer of Technology from Queensland University of Technology, Australia to India for Bio fortification and Disease Resistance in Banana” (GAP-02)**

Project Associate- I (One Position)

Principal Investigator: Dr. Siddharth Tiwari, Scientist-E

Duration: - Till March 2024 or till the termination of the project

Essential Qualifications: - Master's Degree in Natural or Agricultural Sciences / MVSc or bachelor's degree in Engineering or Technology or Medicine from a recognized University or equivalent.

Desirable:

- 1.** Prior theoretical/practical understanding about carotenoid biosynthesis pathway, plant tissue culture, plant genetic engineering, biochemical and molecular biology techniques would be expected from the candidate
- 2.** Project Associate-I will assist in collection & analysis of data related to agronomic, yield and phenotypic performance of transgenic banana lines.

Emoluments: - Rs. 31000/- per month plus HRA (As per DST OM No.SR/S9/Z08/2018 dated 30.01.2019)

Age limit: - 35 Years (Relaxation is admissible in case of SC/ST/OBC/PD as per GOI Instructions)

2. Project: BIRAC sponsored Banana Bio fortification project entitled “Development and Transfer of Technology from Queensland University of Technology, Australia to India for Bio fortification and Disease Resistance in Banana” (GAP-02)

Project Assistant- I (One Position)

Principal Investigator: Dr. Siddharth Tiwari, Scientist-E

Duration: - Till March 2024 or till the termination of the project

Essential Qualifications: - B.Sc. / 3 years Diploma with maximum 55% marks.

Desirable: Prior theoretical/practical understanding about plant tissue culture and plant genetic engineering would be expected from the candidate.

Emoluments: - Rs. 20000/- per month plus HRA (As per DST OM No.SR/S9/Z08/2018 dated 30.01.2019)

Age limit: - 50 Years (Relaxation is admissible in case of SC/ST/OBC/PD as per GOI Instructions)

3. Project title: Development of Aptamer-based multiple biosensors for sensing of pesticides in soil samples (NABI core)

Senior Research Fellow (One position)

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

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

- 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.

Qualification prescribed above with two years of research experience.

Duration: - Appointment is for one year only.

Desired Experience: - The project envisages the development of an aptamer-based multiplexing device for pesticide sensing. The candidate should be well-versed in aptamer synthesis, nanomaterial synthesis, biosensing.

Emoluments: - Rs. 35000/- per month plus HRA (As per DST OM No.SR/S9/Z08/2018 dated 30.01.2019)

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

4. Project Title: "A Nutrigenomics Driven synbiotic formulation development for the prevention of metabolic syndrome" (GAP-42)

Principle Investigator: Dr. Kanthi Kiran Kondepudi, Scientist-E

Position: Senior Research Fellow (01)

Duration: Appointment is a co-terminus with the project along with the availability of funds. It will not exceed the project. (Till February 2024)

Essential Qualification: Postgraduate degree in Basic Science or Graduate/Post Graduate in the 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.

The qualification prescribed above with two years of research experience.

Emoluments and eligibility: - As per DST OM No. SR/S9/Z-08/2018 dated 30.01.2019

Desirable Experience: Research training in working with animal and human cell lines, HPLC, Microbiology and molecular biology techniques.

Age: 32 years (Relaxation is admissible in the case of SC/ST/OBC/PD and women candidates as per GOI instructions)

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

Responsibilities: To perform various research activities such as:

(a) Animal handling

(b) Evaluation of efficacy of synbiotics in cell lines and animal models of metabolic diseases, nutrigenomics and metagenomics

(c) Assisting in preparing project reports and timely submission to the funding agency

Objectives of the project: -

1. Evaluation of probiotics, prebiotics and synbiotics in ameliorating MetS.

2. Nutrigenomics evaluation on the efficacy of synbiotics in preventing and treating MetS in rodents.

Contact Details: -

Project Investigator: Dr. Kanthi Kiran Kondepudi, Scientist E

Email: - kiran@nabi.res.in; **Contact no.** 0172-5221246

5. Project title: Exploring bioactive compounds and natural colorants for functional food development and therapeutic targets in non-communicable diseases. (NABI core)

Principal Investigator: Dr. Shivraj Nile, Scientist-C

I. Junior Research Fellow (One position)

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

Duration: The appointment will be initially for two years as JRF. Further up-gradation from JRF to SRF will be on the basis of the submission of a progress report and further assessment.

Desirable Experience: Extraction and analysis of food bioactive compounds, hands on *in vitro* biochemical assays and animal models, experience in nanomaterial synthesis and digestion models.

Responsibilities:

1. Expertise on chromatographic and spectroscopic identification of natural compounds.

2. Development of bioactive compound based-nanomaterials and determination of their chemical and physical properties.
3. Bioactivity analysis using *in vitro*, *in vivo* and *in silico* models for non-communicable diseases.

Emoluments: - Rs. 31000/- 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)

II. Research Associate-I (One position)

Essential Qualification: PhD in Chemistry/Pharmacy/Life Science/Food Science & Technology/Cell Biology/Biochemistry with at least two research paper in science citation indexed (SCI) journal; Candidates who have already submitted their PhD thesis in above subjects will also be eligible (along with proof of submission), but will be hired at SRF level till they receive their degree. (Eligibility criteria as per As per DST OM No. SR/S9/Z-08/2018 dated 30.01.2019).

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, the performance, the committee may recommend the up-gradation of RA Levels.

Desirable Experience:

1. Strong research background related to food bioactive and natural product extraction, characterization and bioactivity analysis.
2. Practical experience on extraction and stability enhancement of natural colorants.
3. Formulation of bioactive compound based nano materials for cancer and gut microbiome research.
4. Developing various models for enhanced solubility, bioavailability and drug delivery.
5. Experience on handling different cancer cell lines and developing *in vitro* digestion models.
6. Relevant research publications in peer-reviewed journals.

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 the development of sensing platforms by modifying nanomaterials surface with desired receptors, and evaluate the performance of the developed materials. Candidate will also have to work and collect samples from field, prepare reports, presentations, and manuscripts.

Emoluments: - Rs. 47000/- per month plus HRA (As per DST OM No.SR/S9/Z08/2018 dated 30.01.2019)

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

6. Project Title: Identification of potential agri-waste residues for processing to biocoal (Torrefaction). (NABI & CIAB Core)

Principal Investigator: Dr. Joy K Roy, Scientist-F (NABI)

Dr. Sasikumar Elumalai, Scientist-E (CIAB)

Temporary position: Research Associate-I (One Position)

Duration: The RA fellowship is a purely temporary assignment and is tenable for 2 years only, and in exceptional cases depending upon the research progress and performance, the committee may recommend the up-gradation of RA Levels..

Essential Qualification: M.E./M.Tech (Chemical Engineering) with 3 years of research/industrial experience in lignocellulose digestion or energy production.

Or

Ph.D. in Chemical Engg./Chemistry or Biotechnology or relevant discipline from a recognized University/Institute with at least one research paper in Science Citation indexed (SCI) journal.

Emoluments and eligibility: - As per DST OM No. SR/S9/Z-08/2018 dated 30.01.2019

Fellowship: Rs.47000/- per month plus HRA

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

Application Procedure & Other Conditions

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 - **29.05.2023 at 09:00 A.M.** along with the duly filled application form available on the website www.nabi.res.in.
2. Incomplete application forms and applications that are not in proper format may be summarily rejected.
3. The applications should be submitted strictly as per the prescribed format that can be downloaded from the NABI website.
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. 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. The duly filled application form must be submitted at the time of registration at NABI from **09:00 AM to 10:00 AM on 29.05.2023.**
7. The candidates must ascertain their eligibility before applying, as ineligible candidates will not be interviewed.
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. 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. No TA/DA will be paid for appearing in the interview.
11. Canvassing in any form or bringing influence, political or otherwise, will lead to disqualification of the candidate(s).
12. Candidates should strictly adhere to guidelines issued by World Health Organization and Centre Govt/State Govt on Covid-19.

Manager Administration