



## **NATIONAL AGRI-FOOD BIOTECHNOLOGY INSTITUTE (NABI)**

(Dept. of Biotechnology, Ministry of Science & Technology, Govt. of India)  
C-127, Industrial Area, Phase VIII, S.A.S. Nagar, Mohali-160 071.(Pb), INDIA  
Website: [www.nabi.res.in](http://www.nabi.res.in) Tel: 0172-4990300

### **Advt no. 2013-Researcher/ (4)**

#### **Junior Research Fellow**

#### **Advertisement for Junior Research Fellowship**

National Agri-Food Biotechnology Institute (NABI), Mohali, is an autonomous R&D Institute under the Department of Biotechnology, Government of India. The institute carries out cutting edge research at the interface of food, nutrition and agricultural biotechnology.

Applications are invited for the position of a Junior Research Fellow (JRF) under a DST sponsored research project in the **Postharvest Biotechnology Research Programme** at NABI.

**Project Title:** “Metabolomics approach to discovery and validation of biomarkers for artificial fruit ripening induced through prohibited and acceptable ripening elicitors” (Project No: SB/YS/LS-28/2013)

**Principle Investigator:** Dr. Sukhvinder Pal Singh

**Sponsoring agency:** Science & Engineering Research Board (SERB), Department of Science & Technology, Government of India.

**Position available:** 01 (One)

**Duration:** The appointment will be for 3 years or till the termination of the project, and subject to annual review for further extension that will be granted based on the research progress and accomplishments.

**Objective:** Metabolomics is a powerful tool in the era of '*omics*' to discover biomarkers for various diagnostic, prognosis and risk reduction strategies in life sciences. The project is aimed at application of metabolomics approach to discovery and validation of biomarkers linked to artificial fruit ripening elicitors such as calcium carbide and ethylene. This project is eventually aimed to discover a metabolite or a set of metabolites that may be useful for diagnosing or distinguishing fruit ripened with ethylene and calcium carbide. Research efforts will be directed to develop an analytical procedure for diagnosis of fruit ripened with calcium carbide which could be translated into a diagnostic tool for food safety.

**Essential qualifications:** First class M.Sc. having passed NET (CSIR/UGC)/ NET (LS) or M.Tech. in life sciences (Postharvest Technology/ Food Technology/Horticulture/Food Biotechnology/ Biotechnology and related areas).

**Desirable qualifications:**

1. CSIR/UGC/DBT JRF fellowship
2. Prior research or training experience in food/postharvest biotechnology
3. Skills and knowledge of chromatography and mass spectrometry

**Emoluments:** The JRF will be hired as per the emoluments' guidelines and service conditions notified by DST (A.20020/11/97-IFD dated 31st March, 2010).

**Age Limit:** The age limit of applicants for the fellows will be 30 years (relaxable by 5 years for women and reserved category).

**Application and selection process:** All interested candidates may appear for a walk-in-interview at NABI Interim Facility located at C-127, Industrial Area, Phase VIII, Ajitgarh (Mohali), Punjab, on **07.10.2013** at 10.00 am along with duly filled application form available on the website [www.nabi.res.in](http://www.nabi.res.in). Further, interested candidates should also send the softcopy of the application form to [spsingh@nabi.res.in](mailto:spsingh@nabi.res.in) on or before **04.10.2013**. The duly filled application form must be submitted at the time of registration at NABI-reception desk from 0900 Hrs to 1000 Hrs on **07.10.2013**. The candidates must ascertain their eligibility before applying, as ineligible candidates would not be interviewed. All the candidates are requested to appear for the interview with the full CV, thesis/project report, publications and original degree certificates and transcripts. No TA/DA will be paid for appearing in the interview.