



## **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/(3)**

#### **Junior Research Fellow**

National Agri-Food Biotechnology Institute (NABI), Mohali, is an autonomous R&D Institute under Department of Biotechnology, Government of India. The institute carries out cutting edge research at the interface of food, nutrition and agricultural biotechnology. NABI invites the applications from the eligible candidates for the selection of Junior Research Fellow (JRF) for following research project.

**Title: “Variability in the fine structures of feruloyl arabinoxylans from Indian millet varieties and their consequence on anti-oxidant activity”**

**Principal Investigator:** Dr. Koushik Mazumder

**Sponsoring agency:** SERB-Fast Track Scheme, Department of Science and Technology, Government of India

**Position available:** 01 (Junior Research Fellow)

**Objective:**

The proposal will focus on the in-depth structural characterization and comparative study in the fine structures of the esterified feruloyl arabinoxylan-oligosaccharides from Indian millet varieties. Furthermore, the potential of the feruloyl arabinoxylan-oligosaccharides will be determined using *in vitro* assays. The overall goal is to understand the structure-function relationship with respect to antioxidant activity of the feruloyl arabinoxylan-oligosaccharides. Such study can be exploited in preparing nutraceutical health foods based on dietary fibers enriched with feruloyl arabinoxylan-oligosaccharides.

**Essential qualification:** Candidates must have a first class M.Sc./M.Tech. in Organic chemistry/Analytical chemistry/Biochemistry/Biotechnology

**Desirable qualifications:**

1. CSIR/ICMR/DBT JRF fellowships
2. Prior research experiences in extraction and purification of carbohydrate/organic molecules
3. Knowledge of analytical techniques such as GC, HPLC, MALDI-TOF and ESI-MS, NMR etc

**General guidelines:**

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

**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) varying from Rs12, 000/- to Rs18, 000/- per month plus HRA.

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

A walk-in interview will be conducted on 25.09.2013 at National Agri-Food Biotechnology Institute, C-127, Industrial Area, Phase VIII, S.A.S Nagar-160071, Punjab. All interested candidates may appear for interview along with duly filled application form available on the website [www.nabi.res.in](http://www.nabi.res.in) along with (a) a letter of recommendation from immediate supervisor (b) M.Sc./M.Tech. thesis work dissertation. Further, interested candidates should also send the softcopy of the application form to [koushik@nabi.res.in](mailto:koushik@nabi.res.in), [kmazumder78@gmail.com](mailto:kmazumder78@gmail.com) on or before 23.09.2013. The duly filled application form must be submitted at the time of registration from 0900 Hrs to 1000 Hrs on 25.09.2013. The candidates must ascertain their eligibility before applying, as ineligible candidates would not be interviewed.