

Opportunity for Research Trainees at NABI, Mohali

Opportunity for research trainees as per requirement of NABI scientists are available at NABI, Mohali for 6 months starting from Jan to Jun 2017. The area of research training would be related to i) Agricultural biotechnology, ii) Computational biology and bioinformatics, iii) Food biotechnology, and iv) Nutrition biotechnology. Apart from lab works, trainee may be required to involve in research works in field and growth/tissue-culture chambers for growing and testing research materials.

- i) Eligibility : Pursuing final year of M.Sc./M.Tech.
- ii) Duration of training : 6 months (Jan to Jun 2017)
- iii) Subject category for training :
 - I. Agricultural biotechnology
 - II. Computational biology and bioinformatics
 - III. Food Biotechnology
 - IV. Nutrition Biotechnology

- iv) Fees : No
- v) Application form : The prescribed application format is available on NABI website (<http://www.nabi.res.in/Training.aspx>).

- vi) Hard copy of documents to be submitted by post:
 - 1) Filled application form
 - 2) Application forwarded by Head of Department
 - 3) Attested copies of mark sheets/certificates/experiences/birth certificate
 - 4) Expression of interests (500 word statement describing significance of research in the subject category applied for)

- vii) The last date of application to reach NABI: Nov 30, 2016 by 5:30 PM

- viii) Selection procedure : Through screening and selection based on merit, experience, and expression of interest submitted by candidates

- ix) Stipend: No

Note:

- i) The request for short term training must come from the Head of Department and must provide the period of the proposed project work.
- ii) The candidate should clearly indicate on the application form the subject category applied for training and provide e-mail address and contact numbers (telephone and/or mobile).
- iii) The minimal eligibility criterion for consideration of the requests is first division or an equivalent grade (or at least 60% of aggregate scores) in graduation or equivalent exam and at least 60% marks in first year of M.Sc./M.Tech.
- iv) The selected candidate will be informed by email and results will be uploaded on NABI's URL.
- v) Opportunities are also available for short-term/summer trainees in the institute through sponsored programs from government agencies such as the KVPY, JNCASR, INSA/IAS/NASI.

Sr. No.	Project title
<u>Agricultural Biotechnology</u>	
1	Gene discovery for processing and nutrition quality in wheat
2	Development of constructs for gene editing in cereals crops
3	Improvement of for processing and nutrition quality in wheat
4	Nutrition enhancement in banana and wheat by using genetic engineering approach
<u>Bioinformatics/Computational Biology</u>	
5	1) Study of micro RNA regulation dynamics in plants and 2) Development of literature mining tools to study biomolecular relationships.
<u>Food Biotechnology</u>	
6	Isolation and characterization of probiotics from indigenous sources
7	Optimization of polysaccharide extraction and determination their physico-chemical properties for food coating
8	Nano-iron formulation delivers safe iron for the treatment of iron deficiency imprinting high microbiome diversity
<u>Nutrition Biotechnology</u>	
9	Cloning and characterization of TFs involved in adipogenesis.
10	Role of TRP channels in nutrition sensing.