

am writing to you about your requirement for the post of postdoctoral positions in your laboratory. I have found your advertisement on ScienceJobs. I am currently a Research Associate at Institute of Genomics and Integrative Biology (IGIB), Council of Scientific & Industrial Research, Delhi, India. My doctoral work was the effect of heavy metal arsenic on nitrogen assimilation, sugar metabolism and antioxidant defense system in rice plants.

Since very little work had previously been done in this area, my PhD work investigated, in detail, the detailed impacts of arsenic toxicity with special reference to the uptake and its influence on key metabolic processes in growing rice plants in order to get an insight of the mechanism of phytotoxicity of arsenic in rice plants. My research work has immensely contributed to the understanding of the uptake and mechanism of toxicity due to the heavy metal contaminant arsenic in growing rice plants. My novel findings have revealed a direct correlation between arsenic induced elevated levels of soluble sugars and induction of oxidative stress in rice seedlings. Such studies will lead to developing strategies for improving stress tolerance and more specially heavy metal tolerance in plants.

My contributions have been published in different international scientific journals namely Journal of Plant Physiology, Plant Growth Regulation, Acta Physiologiae Plantarum, Indian Journal of Plant Physiology and Physiology & Molecular Biology of Plants.

As noted in my curriculum vitae, I worked for a short time on "Gene identification of mutant obtained by Tn5 mutagenesis of Rhizobia" as a Guest Worker at Institute for Genomics and Integrative Biology (IGIB), Delhi, premier CSIR institute of India. I am especially interested in works related to molecular biology. Presently I am working on "Characterization, expression and regulation of genes encoding nitrate reductase under stresses in rice plants" at Institute for Genomics and Integrative Biology (IGIB), Delhi, premier CSIR institute of India.

I believe the postdoctoral position in your lab will provide me with the support and challenge for which I am looking as I continue this work.

A copy of my curriculum vitae is enclosed. I am looking forward to hearing from you.

Sincerely,
A. B. Jha