

BioResearch unlocks newer research avenues

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BioSpectrum spoke to Dr SK Brahmachari, Director Institute of Genomics and Integrative Biology (IGIB), New Delhi, Dr Lalji Singh, Director Center for Cellular and Molecular Biology (CCMB), Hyderabad and Dr CM Gupta, Director Central Drug research Institute (CDRI), Lucknow, to understand what challenges, opportunities and prospects will the future researchers have in this fast changing scenario.

Employer Expectations

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basic subject and ability to pick up related areas, in addition visible red tapisma According to Dr vali Singli, Director Center for Cellular and Molecular Biology (CCMB) CSIR laboratories have a lot of autonomy. And these organizations work in various research activities. Dr CM Gupta, Director Central Drug racearshiensitiuts of the autonomy. And these organizations work in various research activities. Dr CM Gupta, Director Central Drug racearshiensitiuts of the autonomy. And these organizations work in various research activities. Dr CM Gupta, Director Central Drug racearshiensitiuts of the autonomy. And these organizations work in various research activities. Dr CM Gupta, Director Central Drug racearshiensitiuts of the subring on a strength of the major strength of the program. These include new disciplines and expertise in combinatorial chemistry, highthroughput screening, genomics, program. These include new disciplines and expertise in combinatorial chemistry, highthroughput screening, genomics, program. These include new disciplines and expertise in combinatorial chemistry, highthroughput screening, genomics, program. These include new disciplines and expertise in combinatorial chemistry, highthroughput screening, genomics, program. These include new disciplines and expertise in combinatorial chemistry highthroughput screening, genomics, program. These include new disciplines and expertise in combinatorial chemistry highthroughput screening, genomics, program. These include new disciplines and expertise in combinatorial chemistry highthroughput screening, genomics, program. The second discond disc

would help the students in organizing themselves with respect

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These institutes have world-class infrastructure. Informed Dr Singh, "CCMB's real strength lies in its being an institute having one of the best infrastructure in the world to carry out basic research in the area of modern biology. We have a very strong instrumentation division and all our equipment are maintained, serviced and repaired in-house." Another reason why these research institutes are attractive is the good ambience and working culture. Dr Singh said, "Students prefer to join CCMB because it provides single occupancy hostel facility with kitchenette and attached bathroom, facility for gym and lounge, common washing facilities, solar water heating and canteen facility for breakfast, lunch and dinner. The institute and all the services operate round the clock. We provide transport to students and scientists at late hours to drop them at their residences. Most of the facilities at CCMB are centrally operated by trained technical staff. Everyone including students are free to go to any floor and use any equipment, if it is not already in use, simply by entering into a log book."

Added Dr SK Brahmachari, director, Institute of Genomics and Integrative Biology (IGIB), New Delhi, "IGIB offers excellent infrastructure and our mandate encompasses interesting areas of research. But our true strength is a unique environment where the researcher can strike an optimal balance between fundamental research and that oriented with application potential."

Selection Procedure



Government funded non-profit organization typically advertise in leading national dailies, scientific journals like Nature and Science and websites. Ad-hoc appointments are also made through "Quick Hire Scherwie" dhereuneilled Scherwie a Ansjor Witherseitles in the scherwie a scherwi

Dr Lalji Singh added, "A large number of Indian scientists from all over the world apply to CCMB every year. We also advertise in internationally reputed journals giving details of specific expertise that we have looking for. the the patential job applicants are requested to give a seminar and have one-to-one discussions with our crientists (DBT expertise) of eacd dates includes experts from outside CCMB and outside CSIR) would short-list candidates for interview. Technology of condidates is based on their publication record, their research proposal that they want to take up in an CMB insuitability of the ensagered proposal in the context of the on-going projects in CCMB and CCMB's aspiration between the context of the on-going projects (about 250) for a written test. The patential for about 250 who clear our written test would appear for interviews, which are done in two rounds. Success rate of the final selection is between 5 and 15."

Dr SK Brahmachari informed, "Students come to IGIB either during their post graduating for 2-agencities as invited of an PhD students. The trainees may apply by directly writing to Head, PME, IGBRE Students, we chare: charad CSUR/NET examination are eligible for applying to join for PhD under the guidance of scientisted and through an interview conducted once in a year."

The opportunity for researchers in all national research laboratories in the country is being continuously refurbished with regard to modern infrastructure. The aim is to attract the best talent and build capsility for new technology absorption. It will grow at much faster rate opine directors. Several new institutes are coming up and many old ones are also initiating new fields in order to be in the forefront of biotechnology.

Rolly Dureha

Biotechnology being an interdisciplinary field consists of studies of biochemistry, molecular biology, genetics, microbiology and other related subjects