Call for Applications for a
‘PG Diploma in Big Data Biology’
(In collaboration with IIT, Bangalore)
(Funded by the Department of Biotechnology, Govt. of India)

Recent advances in diverse areas of life sciences such as high-throughput genomics, computational neuroscience, biopharma, medical and cellular imaging have led to the generation of massive data. This poses a huge challenge to researchers to handle such large data sets, analyse and interpret them. The advent of big data has impacted personalised medicine and healthcare services significantly. Efficient computing platforms and tools, sophisticated measurement technologies, Cloud Computing and Artificial Intelligence have transformed life sciences and health care, enabling unprecedented interpretation of data and novel outcomes.

Realising the need for data scientists and data engineers to handle the challenges in biological and medical data, the Institute of Bioinformatics and Applied Biotechnology (IBAB) is pleased to announce the launch of an innovative one-year PG Diploma Programme in ‘Big Data Biology’ in collaboration with the International Institute of Information Technology (IIIT-B), Bangalore and funded by the Department of Biotechnology, Government of India. This interdisciplinary programme will focus on Big Data in Life Sciences and will help explore the opportunities and challenges of handling big data in health care and imaging and will impart engineering approaches to problem solving in this emerging area.

Unique Features of the Programme
- Interdisciplinary programme with courses that strengthen the computational, statistical and engineering components required to analyse large scale data in life sciences
- Courses handled by faculty from IBAB and IIT-Bangalore and industry experts
- Integrated learning experience involving coursework and industry and research-oriented project work
- Comprehensive curriculum comprising diverse areas in Data Science with applications in Life Sciences, including development of machine learning algorithms, genomics, imaging and image processing and clinical data analysis
- Extensive interaction with industry including mentoring and selected teaching by subject matter experts from industry
- 100% track record of placements of the two institutes and their established industry network
- Curriculum with a blend of computing and life sciences that will open opportunities in diverse areas including healthcare data science, genomics and clinical trails

For detailed course content, visit: http://ibab.ac.in and https://www.iiitb.ac.in

Eligibility
- Indian Nationals with B.E. / B.Tech. degree in Biotechnology / Biomedical Technology / Bioinformatics / Computer Science and Engineering / Electronics and Communication Engineering / Electrical and Electronics Engineering / Information Technology or equivalent degree or M.Sc. degree in Biotechnology / Bioinformatics / Biochemistry / Computer Science / Information Technology / Statistics or equivalent degree with a minimum of 60% in the qualifying examination
- Scholarships: Students selected for the programme may be eligible to receive a scholarship of Rs 10,000/- per month from the Department of Biotechnology, Government of India**

Application Procedure
Applications to the programme can be submitted online at: https://ibab.azurewebsites.net

**As per eligibility conditions prescribed by DBT, Govt. of India

Duration of the course : One Year
Selection Procedure
National level online entrance examination at select centres across the country
Number of seats : 25
Reservation for SC/ST/Physically Challenged candidates will be based on the norms of MHRD, Govt. of India

Deadline for Application : 2nd October 2018
Date of entrance examination : 28th October 2018
Commencement of the course : 7th January 2019

About IBAB
The Institute of Bioinformatics and Applied Biotechnology (IBAB) is a unique institute engaged in education, research and entrepreneur support programs and is based at Electronic City, Bangalore. The institute is an initiative of Department of IT, BT and S & T, Government of Karnataka and is situated in a 20-acre campus in Electronic City, Bangalore with excellent infrastructure, students’ hostel and other amenities. IBAB offers a distinctive Masters Degree program with dual specialization in Bioinformatics and Applied Biotechnology and an interdisciplinary Ph.D. program. The Bio-IT research and training centre (Bio-IT Centre) has been established at IBAB in 2010 under a public-private partnership with grant-in-aid from the DeITY Government of India and the Department of IT, BT and S & T Government of Karnataka. The Bio-IT Centre has state-of-the-art facility for NGS with the high throughput sequencer HiSeq 2500, HiScan (Nanumini bead array) for genotyping and joint genotyping and other accessories such as Qubit, C-blot, Covaria and Tape-station etc for processing DNA and RNA samples. IBAB Website: http://ibab.ac.in/

About IIIT-B
The International Institute of Information Technology, a Deemed University (IIIT-B) was established in 1998 with a vision to contribute to the IT world by focusing on education and research, entrepreneurship and innovation. The Institute is a registered not-for-profit society funded jointly by the Government of Karnataka and the IT industry. Since its inception, IIIT-B, with its unique model of education, research, and industry interaction has grown in stature to become an institution of considerable repute in academic as well as corporate circles. The graduate programs at IIIT-B are among the best in the country, offering training oriented towards producing highly qualified practitioners and researchers. As an independent institution and a deemed university, IIIT-B collaborates with the IT industry, leading academic institutions abroad, eminent scientists and industry leaders to offer students the best possible education. Our students have been well received by industry and have been placed with some of the leading companies in the field. IIIT-B can boast of 100% placement for all its graduates. IIIT-B Website: https://www.iiitb.ac.in/

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