Computational Biology

PhD at IMSc

The Institute of Mathematical Sciences

Areas of research:

Biophysics and mechanobiology
Systems and network biology
Pattern formation and dynamics
Biomolecular modelling
Regulatory genomics
Next-gen sequencing applications
Evolutionary biology
Computational neuroscience
Infectious disease modelling

For students interested in frontier research at the interface of biology, computation, physics and applied mathematics

Eligibility:
Masters degree in any branch of science or engineering or **4-year Bachelors degree** (B.E., B.Tech or equivalent)
Valid test score from any **national research entrance examination** (UGC-CSIR NET, JEST, GATE, NBHM, DBT BINC, JGEEBILS, etc).
Test scores must be valid as of June 2017.
Last date for application: **April 20, 2017**.

For more details see
http://www.imsc.res.in/biology_imsc

IMPORTANT DATES:
Application deadline: April 20, 2017
Interview dates: May/June, 2017 (to be announced)
Offers of admission: June/July, 2017

THE INSTITUTE OF MATHEMATICAL SCIENCES, CHENNAI 600 113

IMSc is a leader in India in fundamental research in theoretical physics, mathematics and theoretical computer science, with several members actively pursuing research in interdisciplinary areas including computational biology. In 2013 IMSc started a unique Ph.D. programme in this subject, training students to apply cutting-edge computational and mathematical techniques to problems in modern biology, in collaboration with leading biology departments and institutions in India and abroad.

IMSc is an autonomous national research institute under the Department of Atomic Energy, Government of India, and a constituent institution of the Homi Bhabha National Institute (HBNI), Mumbai (a deemed university). Ph.D. degrees will be awarded by HBNI.

Background image (cr. M Karthikeyan, A Samal): Circos plot of binding profile and interactions of 22 transcription factors in C.elegans (data from Niu et al, Genome Res. 2011)