



(A Section 8 Company)

## Call for applications -Ph.D. Fellowships in Interdisciplinary Bio-Cyber Physical Systems Funded by BITS BioCyTiH Foundation

(Locations: BITS Pilani -Pilani, Goa & Hyderabad Campuses)

Application Deadline 26<sup>th</sup> September 2021

Start Date: 10<sup>th</sup> Oct 201

Website: [www.biocytiH.co.in](http://www.biocytiH.co.in)



BITS Pilani

### About BITS BioCyTiH Foundation

- **BITS BioCyTiH Foundation:** A Technology Innovation Hub (TIH) established by BITS Pilani under National Mission on Interdisciplinary Cyber Physical System (NM-ICPS) in the area of Bio-CPS funded by Dept. of Science & Technology (GOI).
- **Vision Statement:** To foster research, innovation, skill development and training in the interdisciplinary area of Bio-CPS through mentoring and nurturing startups and entrepreneurs, and industry & academia collaborations to undertake cutting edge research and provide affordable solutions in the areas of healthcare, agriculture, water and environment.
- **Research areas of BITS BioCYTiH Foundation:** Healthcare, diagnostics, Biosensors, devices, Smart Sensors, IOT, printed electronics.

### About PhD Fellowship Positions

- Applications are invited for 19 PhD fellowships in the relevant areas of Bio-CPS at different locations of BITS Pilani -Pilani, Goa and Hyderabad campuses.
- The BITS BioCyTiH Foundation PhD fellowship awardee must register in the PhD program of BITS Pilani.
- **Fellowship:** ₹31,000 p.m. for the first two years, ₹33,000 p.m. in subsequent years.
- **Duration of PhD program:** Maximum up to 5 years, subject to satisfactory progress in project and also in Ph.D. Programme.
- **Essential Qualifications:** First class MSc/MTech / ME (as per the position) or equivalent
- **Desirable:** Valid GATE / NET (or equivalent)
- BITS Pilani PhD program information: <https://www.bitsadmission.com/phdmain.aspx>

### Application Process:

- Highly motivated eligible candidates may please apply with CV and Cover letter (showing alignment and justification with the requirements) using the online form by 26<sup>th</sup> September 2021 (<https://forms.gle/HSq4Px4ueTGzFrTy8>).
- Preliminary shortlisting will be based on telephonic/audio-visual interview within a week of last date of application.
- Details of the positions available in various projects are provided below

## Details of the Positions:

#	Research Area	Location	Investigators	No. of Positions	Degree Area	Desirable qualification
<b>Degree Requirement: ME / MTech</b>						
1	Fab facility	Goa	<a href="#">Abhijit Pethe</a> <a href="#">Siddharth Tripathi</a> <a href="#">Gautam Bacher</a>	3	ECE, EEE, Mechanical, Material Science	Experience with Microfabrication
2	IoT (CPS) Lab	Goa	<a href="#">Vinayak Naik</a> <a href="#">Sougata Sen</a>	2	CS, ECE	
3	Wireless Communication & IoT	Goa	<a href="#">Nitin Sharma</a>	1	Electronics, Communications, Computer Science	Mathematical and programming skills. Cloud Computing.
4	Underwater Acoustic Sensor Networks	Goa	<a href="#">Sarang Dhongdi</a> <a href="#">K R Anupama</a>	1	EEE, ECE, CS	Computer/ad-hoc networks and signal processing. Network simulators, network embedded boards, Underwater equipment
5	<a href="#">Printed Electronics</a>	Hyderabad	<a href="#">Sanket Goel</a> <a href="#">Satish Kumar Dubey</a>	3	Electronics, Instrumentation, Mechanical, Chemical, Bioengineering	Microfluidics, MEMS, Sensing
6	Data Security	Hyderabad	<a href="#">Chitranjan Hota</a>	1	Electronics, Communications, Computer Science	
<b>Degree Requirement: ME / MTech / MSc</b>						
7	Cancer Drug Resistance	Pilani	<a href="#">Rajdeep Chowdhury</a> <a href="#">Shibasish Chowdhury</a> <a href="#">Kamlesh Tiwari</a> <a href="#">Yashvardhan Sharma</a> <a href="#">Sudeshna Mukherjee</a> <a href="#">Michelle A Anthony</a>	1	Biological Sciences or allied discipline	Molecular biology experiments, Bioinformatics, patient data analysis.
8	Biomarkers in Cardiovascular Complications	Pilani	<a href="#">Syamantak Majumder</a> <a href="#">Shibasish Chowdhury</a> <a href="#">Inamur R Laskar</a> <a href="#">A R Harikrishnan</a>	1	Biological Sciences or allied discipline	Animal models, Biochemistry and molecular biology experiments
9	Circuit design and required modifications in sensing device	Pilani	<a href="#">SK Verma</a>	1	Electrical, Electronics and Instrumentation	
10	Biosensor Development of for detection of Aflatoxin B1 and Urea	Goa	<a href="#">Sunil Bhand.</a> <a href="#">Gautam Bacher</a>	2	Biotechnology, Biochemistry, Nanotechnology, Bioelectronics, bio-engg.	Thin film devices, electrochemical Impedance spectroscopy, Immunosensor
11	Cognitive Neuroscience, Computational Psycholinguistics, Consumer Neuroscience, Brain Computer Interface, Machine Learning, Deep Learning and pattern recognition	Goa	<a href="#">Veeky Baths</a>	1	Computer Science, Cognitive Science, IT	Brain Computer Interface / EEG data analysis/ Computational Psycholinguistics/ Sentiment analyses and NLP, machine learning algorithms and libraries
12	Cancer molecular Biology	Goa	<a href="#">Angshuman Sarkar</a> <a href="#">Samit Chattopadhyay</a>	1	Biological Sciences or allied discipline	Molecular biology experiments and animal cell culture
13	Protein Chemistry	Goa	<a href="#">Dibakar Chakrabarty</a>	1	Biological Sciences or allied discipline	Biochemical assays and protein structure and function