



## CALL FOR DOCTORAL FELLOW

Date: 11 July 2023

<b>About:</b> Applications are invited for post of “Doctoral Fellow”. The selected candidate is required to enroll in Ph.D. Program in the Department of Electrical & Electronics Engineering, Birla Institute of Technology, Pilani, Pilani Campus as per the Institute norms and regulations.	
<b>Number of Vacancies:</b>	<b>01</b>
<b>Project Title:</b>	Design & Development of a Federated Learning based Smart Object Detection Accelerator for Autonomous Vision in IoT-enabled Systems
<b>Principal Investigator:</b>	<b>Dr. Meetha.V.Shenoy</b> , Department of Electrical and Electronics Engineering
<b>Project Tenure:</b>	4 Years or till the satisfactory completion of the project and the requirements of the Ph.D program of BITS Pilani, which ever is earlier.
<b>Job Description:</b>	The candidate will carry out the task of designing the system architecture for federated object detection including communication strategies, model compression strategies, etc. The candidate will develop an experimental setup for the demonstration of hierarchical federated learning and design a hardware accelerator (FPGA, GPU based) to enable smart object detection to cater to autonomous vision in IoT-enabled systems. He/She will work in close association with UG/PG Chanakya Fellows working in this project. He/she will also write the research papers in indexed journals, conferences and patents.
<b>Qualification:</b>	M.E. / M. Tech. in Electronics/Embedded Systems/ Computer Science/Microelectronics/VLSI/ Communication Engineering or M.Sc. in Electronics or equivalent degree. Students who will complete their PG course by the end August 2023 can also apply. <i>Desirable:</i> a) Good written and spoken English and experience in technical writing. b) Prior experience in computer vision, machine/deep learning microcontroller/FPGA/GPU hardware. c) Basic understanding of IoT networks. d) Candidates should be preferably GATE/NET qualified (not mandatory)
<b>Fellowship:</b>	₹ 31,000/- per month for the first two years, ₹ 35,000/- per month for the third/fourth year.
<b>Registration for Ph.D.:</b>	Selected candidates are required to register for full-time Ph.D. program at BITS, Pilani, Pilani Campus as per the institute norms and regulations.

**How to Apply:**

Applications along with updated CV should be sent through mail to [meetha.shenoy@pilani.bits-pilani.ac.in](mailto:meetha.shenoy@pilani.bits-pilani.ac.in) with the subject of the mail as '*Application for Doctoral Fellow*'. Shortlisted candidates will be informed of the interview. Mere possession of minimum qualification does not guarantee an invitation to the interview. Please note that only qualified and suitable candidates will be called for an interview.

**Contact Email:** [meetha.shenoy@pilani.bits-pilani.ac.in](mailto:meetha.shenoy@pilani.bits-pilani.ac.in)

Last date of Application: 22nd July 2023. Interested candidates are requested to apply as early as possible.