Department of Electronics & Communication Engineering, National Institute of Technology Patna, Bihar

SERB Student Internship Program वृतिका / VRITIKA

This program aims to provide opportunities to promising UG/PG/PhD students from universities and colleges to get exposure and hands-on research skill development experience in '**Design and Implementation of Wireless AI based Robot for Health Applications**'. This is a one-month internship program, funded by SERB, DST, and Govt. of India, to support regular UG/PG/PhD level students who are having a strong orientation towards scientific and engineering research and are pursuing their UG/PG/PhD from University/Institute within India in the fields of Science & Engineering and having an interest in scientific research. This internship program is organized by the Department of Electronics & Communication Engineering, National Institute of Technology Patna, Bihar.

Who can apply:

- Regular UG/PG/PhD level students pursuing their degree from University/Institution within India who **have completed or undergoing B.Tech. degree in Electronics Engineering/ Electrical Engineering/Mechanical Engineering or Related Course**
- **Research Topic:** The objective is to provide training with hands-on practical's on the development of AI-based Robotic devices for healthcare.

The participants shall acquire the scientific and practical knowledge of applying fuzzy logic controllers, machine learning-based controller, 5G/6G wireless technologies, deep learning techniques in embedded devices to make real-life solutions.

How to apply:

- **Step 1:** Prepare the Annexure-I, II and III and scan those documents and save it in single PDF format.
- **Step 2:** Apply using the following links:
- https://forms.gle/DAFp6DmdLLcPWnBeA
- Last Date of application: **25 December 2023.**
- The Acknowledgment to only shortlisted candidateson or before **01 January 2024.**

Details of the Internship & Selection Process

- Duration: **1 month (08/Jan/2024 to 07/Feb/2024)**
- Proposed domain of Internship: **Robotics, Robust controllers' design, sensors, data acquisition, high-speed wireless communication, data processing, fuzzy logic, deep learning, machine learning,**
- Number of Inters Required: **5 (Five)**
- Last date for application: **25 December 2023.**
- Acknowledgement to the selected students latest by: **01 Jan 2024 or as institute receive fund from SERB.**
- The intern will be entitled to **Travelling Allowance as per govt of India norms.**
- **Stationery, food, accommodation etc. will be provided free of cost as per SERB Norms.**
- **Students are advised to bring their own laptop.**
- **Selection Process:** Students who are currently enrolled and have completed at least five/six semesters of the UG/ Enrolled for PG degree (B.Sc./B.E./B.Tech./M.Sc/M.Tech/M.E.) and Pursuing PhD in a relevant discipline from any institute in India.

| ADDRESS FOR CORRESPONDENCE: | Dr. Anupam Kumar, Dr. Akash Agarwal, Department of ECE, NIT Patna
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<p align="center">**Annexure – I**</p>

<p align="center">**Endorsement cum No Objection Certificate from the Head of the Department**
(To be given on University/ Institute/ College Letterhead)</p>

This is to certify that:

1. Mr. / Ms. / Mrs._____, is a bona fide student of our University /Institute / College and will assume full responsibility for actively participating in the SERB Student Internship Program on "**'Design and Implementation of Wireless AI based Robot for Health Applications**" sponsored by SERB under the Accelerate Vigyan Scheme, and organized by the Department of Electronics& Communication Engineering, National Institute of Technology Patna, Bihar during 08 Jan 2024 to 07 Feb 2024.

2. The Applicant is a Full-time / part-time student of our University/ Institute/ College and enrolled in B.Tech / M.Tech. / M.Sc. / M.E. Programme in …………………………….... Department of ……………………. University/ Institute/college…………………………………………………...

3. The candidate has secured_____% / CGPA / CPI till date (if applicable).

4. The University/ Institute/ College also endorses the conduct of the applicant to be of highest order who bears a good moral character.

5. The University/ Institute/ College has "No-Objection" for the candidate participation during the above said period.

6. The candidate, if selected for participation, shall be duly permitted to attend the Training and Skill Internship on physical mode during **08/Jan/2024 to 07/Feb/2024**.

Signature and Seal
(Head of the Department)

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Annexure – II

Undertaking from the Student Applicant

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I hereby provide my consent to participate in the SERB Student Internship Program titled "Design and Implementation of Wireless AI based Robot for Health Applications

1. organized by the Department of Electronics& Communication Engineering, National Institute of Technology Patna, Bihar.

2. Vouch for participating in this Training and Skill Internship whole-heartedly and attend all the lab sessions, sincerely with utmost dedication.

3. I shall also be responsible and attentive to involve myself during the discussion/interaction session.

4. I am aware that it is mandatory to attend all the lab sessions, compulsorily qualify for the course assessment and submit report to successfully avail the certification.

5. I understand that the materials supplied during this Training and Skill Internship are only for educational/academic purposes.

6. Uploading/hosting/sharing any content on any platform shall be unlawful on the grounds of Intellectual Property Rights.

7. Any Proxy participation in the Training and Skill Internship shall invite immediate cancellation of his/her candidature and same shall be reported to parent institution.

8. I understand to ensure my physical presence and any support in this regard is to be sought from the applicant's parent Institution. The organizing institute shall not be liable for the same.

9. I agree to abide by any other terms and conditions of Organizing Institute and SERB.

Name of the Applicant :
Gender & Age :
Degree (B. Tech/M.Tech/M.Sc./ M.E.) :
Department/Specialization:
Institution/College/University :
Date :
Place :
Signature of the Applicant :

Biodata

Personal Information	
Prefix	Mr./Mrs./Ms
Full Name of the Applicant (Full name as described on certificate)	
Father's/ Mother's/ Guardian's name	
Date of birth (DD/MM/YY)	
Gender	
Nationality	
Email Address	
Correspondence Address	
Permanent Address	
Contact Number	
Emergency Contact Person	
Emergency Contact Person's Mobile Number	
Details of the UG Curriculum (For UG and PG applicants)	
U.G. Degree	B.Sc./ B.Tech./ B.E./ Others_____
U.G. Degree Specialization Subject	
Name of the Institution/University/College (U.G. Degree)	
Institution/University/College Address (U.G. Degree)	
Division/Department/School (U.G. Degree)	
Degree completed? (Yes/No)	

CPI/CGPA/Percentage obtained in U.G. Degree *Attach a proof for CPI/CGPA/% obtained in UG Degree (*Provide current CGPA for student who have not completed their course*)			
Knowledge of programming Language:	MATLAB (Yes/No)		
	Other (Yes/No)	Name:	

Details of the PG Curriculum (For PG applicants only)

P.G./PhD Degree Pursuing	M.Tech./ M.E./ M.Sc./ Others_____		
P.G/PhD Degree Specialization			
Name of the Institution/University/College (P.G. Degree/PhD)			
Institution/University/College Address (P.G. Degree/PHD)			
Division/Department/School (P.G. Degree/PhD)			
CPI/CGPA/Percentage obtained in P.G./PhD Degree (Fill whichever applicable) *Attach self-attested photocopy of all available marksheets	1st Sem	2nd Sem	3rd Sem
Details of other course taken, if any.			

I agree that all the information mentioned is correct and I shall be liable for the same.

Place:
Date: **Signature of the Applicant**