



CSIR- Advanced Materials and Processes
Research Institute (AMPRI), Bhopal, 462026



Science and Engineering Research Board (SERB)
Department of Science and Technology (DST)
Govt. of India



Call for Summer Research Internship

Under

Accelerate Vigyan Vritika

Title: "Training and internship on Artificial Intelligence in Hydrological & Environmental Applications"

CSIR-AMPRI, BHOPAL

VRITIKA (Training and Skill Internship)

CSIR-Advanced Materials and Processes Research Institute (CSIR-AMPRI), Bhopal is a constituent laboratory of Council of Scientific and Industrial Research (CSIR), New Delhi. The Institute was started in the year 1981 as a Regional Research Laboratory (RRL) and renamed as Advanced Materials and Processes Research Institute (AMPRI) from March 2007 onwards by the CSIR to give more visibility for carrying out focused research

'VRITIKA' is the call for initiation and practice in science through Training and Skill Internship. This program aims to provide opportunities to promising PG students from universities and colleges to get exposure and hands-on research skill development experience. These internships will primarily be facilitated by organizations / institutions / laboratories of national importance such as IITs, IISc, IISERs, NITs, CSIR, ICAR, ICMR etc. For more details visit the following links:

<https://acceleratevigyan.gov.in/programs/abhyas/vritika> &
<http://serb.gov.in/abhyaas.php>

OBJECTIVE AND SCOPE OF THIS INTERNSHIP PROGRAMME:

IoT and AI are two popular computer fields used to create smart machines and devices that are capable of carrying out a variety of tasks that would ordinarily require human intellect. Although IoT and AI are a multidisciplinary science with many different approaches, advances in machine learning and deep learning are generating a new paradigm that will virtually expand the boundaries of imagination in every business. Machine learning offers a method for creating computer data that will be combined with statistical methods to help the computer "learn" how to do tasks for specific applications with ever-improving accuracy. The purpose of this training and skill internship is to provide PG and research level students with the knowledge and skills they need to explore the worlds of IoT and AI.

WHO CAN APPLY:

- Regular PG levels (MTech/M.E./M.S.)/PH.D students pursuing their degree from University/Institution within India,
- Specialization – Mechatronics/Robotics/Mechanical /Electrical/Electronics/Computer Science Engineering
- Very good mathematical and analytical skills
- Software knowledge like MathLab, C++, Python etc

HOW TO APPLY & SELECTION PROCESS:

- Candidate shall apply for the Internship program by filling the following Google form:
<https://forms.gle/tds7x6ArgCz6JuHi7>
- Selection will be based on Academic performance and projects completed in the domain.

DETAILS OF INTERNSHIP:

- Duration – 26th June – 23rd July 2023 (One month)
- Domain of Internship : Artificial Intelligence (AI) and its Applications
- Number of Interns Required : 05 Nos
- Mode of Training and Skill Internship: Offline mode
- Last Date for Submission of Application: 15th June 2023
- List of selected students shall be announced by 18th June 2023
- Confirmation of Acceptance of Internship by the selected candidates: 21th June 2023
- Reporting date for confirmed Candidates: 25th June 2023
- Venue: CSIR -Advanced Materials and Processes Research Institute (AMPRI), Bhopal (462026)
- No stipend will be provided for the internship.
- Boarding and lodging expenses for the internship period will be provided as per Vritika Scheme of SERB, DST
- Certificate will be provided to the interns after the successful completion of the internship tenure.

EVENT ORGANISER

Dr. Satanand Mishra,
Principal Scientist, CSIR- Advanced Materials and Processes Research Institute (AMPRI) , Bhopal
snmishra07@gmail.com, snmishra@ampri.res.in,
+91-9424586725, 8839313534

CSIR-Advanced Materials and Processes Research Institute (AMPRI)

Date: 01/06/2023

- ✚ Training and Internship Programme entitled " Artificial Intelligence (AI), Machine Learning, Water Management, Hydrology, Environment."
- ✚ Duration: 26 June 2023 to 23 July 2023 (One Month)
- ✚ Funded by SERB, DST New Delhi.

Applications are invited from eligible students for such internship at CSIR-AMPRI as per the following conditions:

1. The Training and Internship Programme will be offered for a period of one month during the period from 26 June 2023 to 23 July 2023 (One Month), in line with the current financial calendar of CSIR-AMPRI, Bhopal.
2. Interested students from other institutes must apply through their Head of the Department/Institute, in the prescribed format (attached), within the stipulated time.

3. Eligibility:

- Regular PG levels (MTech/M.E./M.S.)/Ph.D students pursuing their degree from University/Institution within India,
- Specialization– **Mechatronics/ Electrical/ Electronics/ Electronics & Tele- Comm./ Robotics/ Computer Vision/ AI or Computer Sc./Applied Electronics/ Instrumentation / Mechanical Engg. or IT**
- Very good mathematical and analytical skills
- Software knowledge like MathLab, C++, Python etc

4. How to Apply:

- Kindly fill out the offline application form (attached as Annexure I) and scan to submit in the Google registration form given below.
- Interested students fill out the Google form(<https://forms.gle/ETN3EaHJS2gbppbbA>) and also send the prescribed application form through an email to snmishra07@gmail.com attaching a scanned copy of the signed, attested application, NOC with all the documents required on or before **15th June 2023**.
- The Application form shall be accompanied by self-attested copies of the relevant documents and a No Objection Certificate obtained from the Head of the Department/Institute of the parent institution.

5. Selection Process:

The selection of interns will be done by an approved committee based on the:

- Academic achievement in university examinations (CGPA/percentage of marks)
- Participation in academic/co-curricular competitions and other awards/distinction
- Projects carrying out in respective domains.

Short-listed candidates will be intimated through email at least 1 week in advance of the commencement of the Training and Internship Programme.

6. Terms and Conditions:

- a CSIR-AMPRI will provide travel (to & fro): 3rd AC, shortest route may be considered from present address) to the interns as per the Training and Internship Programme Scheme of SERB, DST.
- b The hostel accommodation at CSIR-AMPRI will be provided free of cost. During training, food will be arranged free of cost.
- c No stipend will be provided during Training and Internship Programme.
- d Best **5 students** will be selected by an approved committee for programme as decided by the CSIR-AMPRI. The decision taken by the committee is binding and no further communication, what so ever, will be made regarding the selection procedure to the intake participants.
- e All the selected participants shall strictly follow the rules and regulations of the Institute. Any violation will lead to immediate termination of the Training and Internship Programme and the matter will be reported to the parent institution. In addition to this, appropriate action will be taken against the identified participant as decided by the Director, CSIR-AMPRI.
- f Upon successful completion of the Training and Internship Programme, the participant will be awarded the Training and Internship Programme **Completion Certificate**” from CSIR-AMPRI, Bhopal.

7. Expected Outcome:

Upon completion of the Training and Internship Programme, the student has to submit a report of the work done by him/her.

Important points:

- The Google form should be filled and a scanned copy of the completed application with all attachments must be submitted to email: snmishra07@gmail.com Attachments required:
- No Objection Certificate/Testimonial obtained from the Head of the Department/Institute of the parent institution.
- Consent of the parent or faculty advisor of your institution.
- For any clarification and enquiries, you may contact on email: snmishra07@gmail.com



CSIR- Advanced Materials and Processes Research
Institute (AMPRI)



Science and Engineering Research Board (SERB)
Department of Science and Technology (DST)
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Training and Internship Programme Application Form – 2023

Application Date:					Paste Photo Here
1) Name of the Applicant:					
2) Name of Parent:					
3) Address Details:		Permanent	Correspondence		
4) Contact Details:		Mobile No.:			
		Email :			
5) Educational Qualification					
Examination	Board/ University	Year	Subjects/ Discipline/ Specialization	% Marks / CGPA / Equivalent	
SSC					
HSC					
B.Tech / B.E.					
MTech/M.E./ M.S.					
6) Publication in referred Journals (if any):					
7. Any award/ recognition:					
List of Attachments i. No objection certificate, ii. Identity Card, Consent of the parent or faculty advisor.					

Signature of the Applicant
(with date)

Certificate from Supervisor/ Guide from Parent Institution

No Objection Certificate obtained from the Head of the Department/Institute of the parent institution.

No Objection Certificate

It is certified that Mr./Miss/Mrs. _____ Is doing thesis/projectwork under the guidance and he may be allowed for attending the said Training and Internship Programme as per guidelines of SERB, DST, New Delhi. Institute doesn't have any Objection.

Head of the Department/Instituted
(Signature with date, Seal)