

**Department of Mechanical Engineering,  
National Institute of Technology, Tiruchirappalli (NITT)**

**VRITIKA (Training and Skill Internship)**

'VRITIKA' is the call for initiation and practice in science through the Training and Skill Internship. This program aims to provide opportunities to the promising UG, PG students from universities and colleges to get exposure and 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>.

**Call for Research Internship (Accelerate Vigyan - Vritika) – Physical Mode**

**Title: Life cycle assessment of CO<sub>2</sub> reduction by energy efficient hybrid biomass pyrolysis and gasification**

**Who can Apply:**

- ❖ Regular UG, PG level (B.E/B.Tech/MTech/M.E./M.S) students pursuing their degree from AICTE approved University / Institution within India are eligible to apply.
- ❖ Specialization – Mechanical / Chemical / Electrical and Electronics / Instrumentation / Computer Science / Information Technology and related domains.
- ❖ The applicants must produce a letter of authentication from their Supervisor/Head of the Department/Head of the Institute indicating their association with the Institute and a "No Objection Certificate (NOC)" for allowing their student to undergo training in the workshop if selected. There is no dedicated format for the same; however, it must be obtained on the institute/university letterhead.
- ❖ Students who have demonstrated strong research and analytical skills in previous professional and academic work would be given preference.

**How to Apply:**

- ❖ The candidate shall apply for the Internship program by filling out the following Google Form: <https://forms.gle/AsefgbjK2842ABmSA>
- ❖ Please fill the above Google form with the requested details and upload the scanned copies of the certificate and no objection certificate (from HoD/Head of the institution) by **16<sup>th</sup> August 2024**.
- ❖ The list of shortlisted students for the written test/interview shall be announced on or before **28<sup>th</sup> August 2024**.
- ❖ Tentative date of written test/interview (online mode): **06<sup>th</sup> September 2024**.

**Details of Internship & Selection Process**

- Duration: 02<sup>nd</sup> Dec 2024 to 10<sup>th</sup> January 2025 (6 Weeks)
- Number of Interns Required: 05
- No stipend will be provided for the internship.
- Reporting venue for the selected students: NIT, Tiruchirappalli.

**Selection process:**

- The registered candidates shall be shortlisted for a written test or interview based on the eligibility criteria and academic performance/GATE score.
- The shortlisted candidates shall be selected for the research internship program based on their performance in the written test/interview.

**Accommodation:**

- Selected interns will be accommodated in the Institute hostel rooms (if available) with catering facilities.
- A limited number of rooms in NITT Hostels are available on First Come, and First Served basis. THE HOST INSTITUTION SHALL BEAR the boarding and lodging within the NITT premise only. If unavailable, the participants need to make self-arrangements for their stay outside the NITT premise, which the organizers do not bear. TA will be reimbursed for the train or bus's lowest fare (from home institute/hometown to NITT and vice versa).

**WHAT'S IN IT FOR YOU?**

- You will get a chance to learn and enhance your skills in the production of biofuels and life cycle analysis for carbon reduction and its application in UN SDGs goal (including design, simulation, optimization, handling of equipment's and technical writing, etc.).
- This program would facilitate the young talent to choose a career path in Science and Technology at a later stage.
- Certificates will be provided to the interns after the successful completion of the internship.

**Address for Correspondence:**

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