



Accelerate Vigyan - VRITIKA

Call for Training and Skill Internship Positions

on

Toxicity Analysis of Degraded Metabolites of Textile Azo Dyes by Zebra Fish Model: In-Silico & In-Vivo Approach

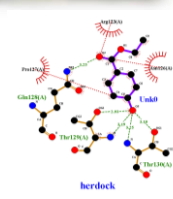
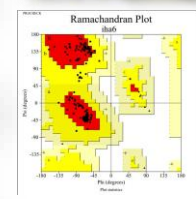
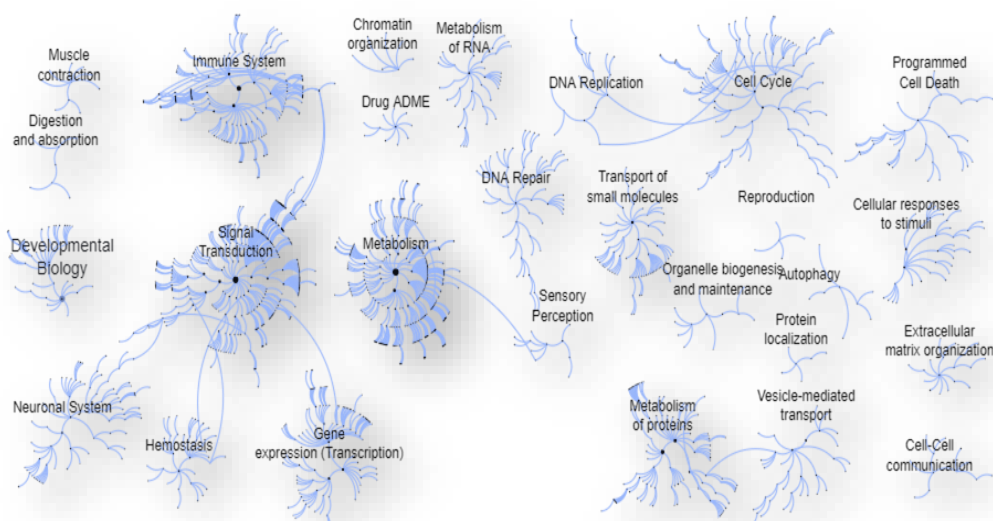
Organized by: Department of Bioengineering, NIT Agartala, Tripura, India.

Research Internship Duration: June to July, 2023

Last Date for Application: May 19, 2023

Number of Positions: 4

Physical Mode



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DEPARTMENT OF
SCIENCE & TECHNOLOGY



For Details Contact:

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ABOUT INSTITUTE

The National Institute of Technology Agartala was constituted by the Govt. of India in 2006 to create excellence in technical education and research in the North East States of India. The Ministry of Education has conferred the "Institute of National Importance" status. Institute is committed to developing highly competent young Engineers, Scientists, and Management Professionals to cater to the ever-increasing techno-managerial needs of national and international standards fulfilling professional ethics and societal commitment.

ABOUT DEPARTMENT

The Department of Bioengineering at NIT Agartala was established in 2012. The department offers undergraduate (B.Tech.) and postgraduate (M.Tech. and Ph.D.) academic programmes. The Department focuses on enhancing the effectiveness of technical education and innovation ecosystems in biotechnology. The department has 8 faculty members specialized in various domains of bioengineering. The major thrust areas include microbial and enzyme technology, biochemical engineering, tissue engineering, plant biotechnology, nanobiotechnology, and computational biology.

ABOUT VRITIKA PROGRAM

VRITIKA is the call for initiation and practice in science through a Training and Skill Internship. This program aims to provide promising PG students from universities and colleges opportunities for exposure and hands-on research skill development experience. For more information about the VRITIKA program, please visit the website: <https://acceleratevigyan.gov.in/programs/abhyas/vritika>

ABOUT THE PROJECT

The wastewater discharge is often a cocktail of carcinogenic chemicals, dyes, salts & heavy metals that hurt the environment and pollute essential drinking water sources. Many azo dyes are highly toxic to the ecosystem & mutagens, which can have acute to chronic effects upon organisms depending on exposure time & azo dye concentration. Some azo dyes are degrading under certain conditions; they will break and forms an aromatic compound which may have a toxic effect on the ecosystem. If the substances do not degrade, they will remain in the environment. Our project is to provide a clear vision of the effect of chemical compounds after the degradation process & their level of vulnerability towards the water ecosystem.

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Eligibility:

Regular postgraduate students (M.Tech/M.Sc./PhD) in Biotechnology (or) Bioinformatics (or) Chemistry (or) Chemical engineering with a strong orientation toward research.

Application Procedure:

The application should be sent to the email padmanaban@nita.ac.in as a single pdf attachment with the subject line "Application for Research Internship Positions - Accelerate Vigyan - VRITIKA".

The application should contain the following documents in order:

- ✓ Filled & Signed Application Form (Annexure -I).
- ✓ Endorsement cum No Objection Certificate duly approved by the Head of Department (Annexure-II).
- ✓ Signed Undertaking Form (Annexure -III).
- ✓ Letter of Intent (upto 300 words):
 - Why do you wish to attend this Skill Internship and Training?
 - What do you indent to learn?
 - How will it be useful for your career?
- ✓ Resume (Not exceeding 2 pages)
- ✓ P.G. Semester Marksheets (Self-Attested)
- ✓ U.G. Degree Certificate (Self Attested) or consolidated mark sheets
- ✓ Institution/College/University I.D. Card (Scanned Copy)

Selection:

- The screening will be primarily based on the details (marks, letter of intent, etc.) provided in the application form.
- Shortlisted applicants (only) will be intimated through their email.

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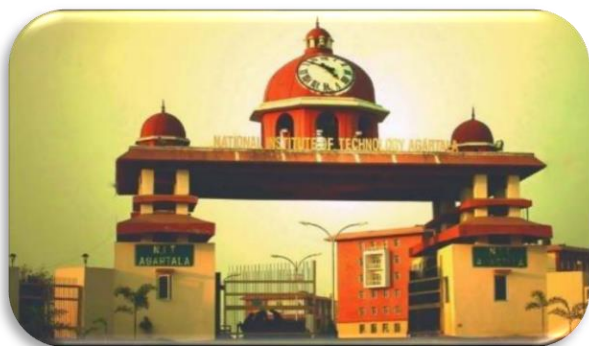
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Details of the Internship:

- The financial assistance for conducting this event has been provided by the Science & Engineering Research Board (SERB), a statutory body of the Department of Science & Technology (DST), Government of India.
- The Training and Skill Internship period shall be for 6 to 8 Weeks in June – July 2023.
- Last Date for application is 19th May 2023.
- List of selected students shall be mailed on or before 22nd May 2023.
- Reporting date for the selected students: 29th May 2023.

Nature of Support:

- The interns will be given for meeting daily necessary expenses such as stationery, consumables, accommodation, food, etc., as per the norms of the funding agency. Hostel facilities will be provided within the campus.
- No stipend will be provided for the internship.
- For outstation candidates, one-time onward and return train ticket fare (Shortest route to Host institute in 2S/Sleeper class) will be reimbursed (as per GOI norms).
- Certificate will be provided on successful completion of this Training and Internship.



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How to Reach NIT Agartala

Reaching by Air: Agartala is connected very well by means of air. Regular flights are available from Delhi, Mumbai, Chennai, Bangalore, Kolkata etc. After reaching the airport, one can book car/auto services (Distance: 30km).

Reaching by Train: The nearest station to NIT Agartala is Jirania, just 3km away. However, most train stoppages are at Agartala station situated at Badharghat (Distance: 21km). After reaching the station, one can book car/auto services.

Reaching By Bus: Buses are available daily from Guwahati to Agartala. One must get down at Ranir Bazar. From Ranir Bazar, regular auto services are available to NIT Agartala.

Weather: Agartala experiences a rainy season in June – July. The temperature will be 30-35°C.

Places to visit: Tripura is a state with a collection of hills and places of worship, including its characteristic jungles.





SERB - VRITIKA Program - Accelerate Vigyan Scheme
Training and Skill Internship on

Toxicity Analysis of Degraded Metabolites of Textile Azo Dyes by Zebra Fish Model: In-Silico & In-Vivo Approach

June – July 2023

Organized by the Department of Bioengineering,
National Institute of Technology Agartala, Tripura

Annexure-I

Application Form

Attach your
passport-size
photograph here

1.	Full Name of the Applicant (As mentioned on your certificates)	
2.	Father's/ Mother's/ Guardian's name	
3.	Date of birth (DD/MM/YY)	
4.	Gender	Male/Female
5.	Nationality	
6.	ID Card Number	
7.	Correspondence Address	
8.	Permanent Address	
9.	Contact Number	
10.	Email Address	

11.	P.G. Degree Pursuing	M.Sc./ M.Tech./M.E./Others
12.	Specialization Subject in P.G. (if any)	
13.	Name of the Institution/University/College	
14.	Institution/University/College Address	
15.	Name of the Department/School	
16.	Percentage/CGPA in P.G.: (Attach self-attested photocopy of all available mark sheets)	Semester 1: Semester 2: Semester 3:
17.	U.G.	B.Sc. / B.Tech. / B.E. / Others
18.	Subjects in U.G. and Specialization (if any)	
19.	Name of the Institution/University/College	
20.	Name of the Department/School	
21.	Percentage/CGPA obtained in U.G. (Attach self-attested photocopy of mark sheets and certificates)	
22.	Percentage/CGPA of marks in 12 th (Attach self-attested photocopy of mark sheets and certificates)	
23.	Percentage/CGPA of marks in 10 th	
24.	Name and phone number of the emergency contact person	
25.	Within 2000 characters write: (i) Why are you interested in this Training and Skill Internship? (ii) How will it be beneficial to you?	

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

Place:

Date:

Signature of Applicant



Annexure-II

Endorsement cum No Objection Certificate from the Head of the Department

(To be submitted on University/Institute/College Letterhead)

This is to certify that:

1. Mr. / Ms. / Mrs. _____, is a bonafide student of our University / Institute / College and will assume full responsibility for actively participating in the Training and Skill Internship on **“Toxicity Analysis of Degraded Metabolites of Textile Azo Dyes by Zebra Fish Model: In-Silico & In-Vivo Approach”** sponsored by SERB under the Accelerate Vigyan Scheme, scheduled from 1st June to 15th July 2023.
2. The Applicant is a Full-time / part-time student of our University/ Institute/ College and enrolled in M.Sc./M.Tech/M.E. Programme in Department.
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 the highest order and bears a good moral character.
5. The University/ Institute/ College has “No-Objection” for the candidate’s participation during the above period.
6. If selected for participation, the candidate shall be duly permitted to attend the Training and Skill Internship in physical mode. The University/ Institute/ College may provide the necessary facilitation for this purpose.

Date:

Place:

Signature and Seal with name
(Head of the Department)



**SERB - VRITIKA Program - Accelerate Vigyan Scheme
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Toxicity Analysis of Degraded Metabolites of Textile Azo Dyes by Zebra Fish Model: In-Silico & In-Vivo Approach

June – July 2023

Organized Department of Bioengineering, National Institute of Technology Agartala, Tripura

Annexure-III

(Undertaking from the Student Applicant)

1. I hereby provide my consent to participate in the Training and Skill Internship titled “**Toxicity Analysis of Degraded Metabolites of Textile Azo Dyes by Zebra Fish Model: In-Silico & In-Vivo Approach**” organized by the Department of Bioengineering, National Institute of Technology Agartala, Tripura.
2. Vouch for participating in this Training and Skill Internship wholeheartedly and sincerely attend all the hands-on sessions and presentations 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 hands-on sessions and seminars/talks compulsorily qualify for the course assessment and submit a report in order to avail the certification successfully.
5. I understand 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, which shall be reported to the parent institution.
8. I understand that 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 shall strictly follow the COVID guidelines issued by the Government of India and the State of Tripura.
10. I agree to abide by any other terms and conditions of the organizing Institute and SERB.

Name of the Applicant:

Date of Birth:

Programme (M.Sc./M Tech/Ph.D):

Institution/College/University:

Date:

Place:

Signature of the applicant