



# CompGravIIITA

## VRITIKA Research Internship on

### Computational and Theoretical Aspects of Gravitational Physics at IIIT, Allahabad

#### OBJECTIVE

To train young postgraduate students in Gravitational Wave physics, Numerical Relativity, and Black Hole physics in order to provide long-term research opportunities in classical and quantum gravity, gravitational-wave astronomy, and aspects of black hole perturbation theory. This internship program will help to develop skilled personnel for mega-science projects like LIGO, LIGO-India, LISA etc.

#### HIGHLIGHTS

- Pedagogical lectures and Hands-on Sessions on Gravitational Wave Data Analysis, Machine Learning, Numerical Relativity, and Black Hole Perturbation Theory.
- Continuous scrutiny of the projects through assignments and interactions.
- Long Term Research Opportunities in Computational Gravity and Black Hole Physics.
- Exposure to Python and Mathematica computational skills.
- Limited support to the interns is available for stationary and consumables as per the SERB norm.

#### POSITIONS AVAILABLE

Two (02) Research Interns

#### APPLICATION DEADLINE

April 30, 2021

#### PROGRAM-DURATION

8 weeks, between May-July, 2021

#### MODE OF THE PROGRAM

Online

#### EVENT ORGANISER

Dr. Srijit Bhattacharjee, IIIT-Allahabad

#### HOW TO APPLY

Prepare a single pdf file comprising the Application Form together with a Statement of Purpose, and send to the following address:  
[srijitb@iiita.ac.in](mailto:srijitb@iiita.ac.in)

#### ADVISORY COMMITTEE

- Prof. P. Nagabhushan, Director, IIIT-A
- Prof. Krishna Misra, IIIT-A
- Prof. Tapabrata Lahiri, Dean (Academic & Research, IIIT-A)
- Prof. Pavan Chakraborty, IIIT-A
- Prof. U. S. Tiwari, Dean (Special Development), IIIT-A
- Prof. Vijayeshri Tiwari, Registrar (Acting) IIIT-A

#### NOTES

- Applicants must arrange a "No Objection Certificate" from the Head of the Department/Institute endorsing their association with the institute. NOC must be submitted along with the application form.
- Applicants are supposed to arrange a letter of recommendation from their Supervisor/HoD. The recommendation letter should reach [srijitb@iiita.ac.in](mailto:srijitb@iiita.ac.in) on or before 30 April, 2021.
- Familiarity with basic aspects of general relativity is desirable.
- The selection will be based on the academic records, statement of purpose and recommendation letter. Based on the number of applicants, there might be a short interview for selecting the candidates.
- Each selected intern must submit a report on the project she/he would undertake.
- On successful completion of the internship the students will get a certificate on their participation and performance.

**SPONSORED BY SCIENCE & ENGINEERING RESEARCH BOARD (SERB) UNDER THE SCHEME OF ACCELERATE VIGYAN, GOVERNMENT OF INDIA.**

For more details visit: <https://acceleratevigyan.gov.in/programs/abhyas/vritika>



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**VRITIKA Research Internship on**  
**Computational and Theoretical Aspects of Gravitational Physics**  
Indian Institute of Information Technology, Allahabad  
(Application Deadline: April 30, 2021)

**APPLICATION FORM**

Name: \_\_\_\_\_

E-mail: \_\_\_\_\_

Institute/University/College: \_\_\_\_\_

Degree Pursuing: \_\_\_\_\_

\*Marks obtained in  $XII^{th}$  (% only): \_\_\_\_\_

(\*Affix marksheet)

\*CGPA/CPI/% till the Last Semester of the Bachelor's/Master's Degree: \_\_\_\_\_

(\*Affix mark sheets/grade cards and certificates)

Address of Correspondence: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Permanent Address \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Phone/Mobile No.: \_\_\_\_\_

Publication details (if any):

**Referee Details:** Please fill up the details of the referees (maximum two) below:

1. Name: \_\_\_\_\_

Affiliation: \_\_\_\_\_

Email: \_\_\_\_\_

**Statement of Purpose (in 500 words):**  
(affix separate sheet if necessary)

**Place & Date:**

**Signature of the Applicant**

**NOTE:** Please prepare a single pdf file consisting of the Application form filled in all respects together with the NOC, testimonials, and send it to the email ID [srijitb@iiita.ac.in](mailto:srijitb@iiita.ac.in) on or before the application-deadline. Please also request your referee to send the recommendation letter to [srijitb@iiita.ac.in](mailto:srijitb@iiita.ac.in) with subject line- *Vritika recommendation for “candidate’s name”* within the deadline 30 April, 2021.