



# Birla Institute of Technology, Mesra, Ranchi

## BIT Summer Internship Program for Advanced Research (BIT-SIPAR 2026)

### 1. About the Internship Program

The **BIT Summer Internship Program for Advanced Research (BIT-SIPAR 2026)** at **BIT Mesra** is designed to provide students with hands-on experience in cutting-edge research, industry projects, and technical advancements. The program aims to enhance students' practical knowledge, expose them to real-world applications, and bridge the gap between theoretical learning and industry demands.

#### Objectives:

- To provide research and industry exposure to undergraduate and postgraduate students.
- To facilitate students' interaction with faculty experts and industry professionals.
- To help students gain practical experience in their fields of study.
- To offer a platform for students to contribute to ongoing research projects and industry collaborations.

### 2. Departments Offering Internships

Internships will be available across multiple departments at BIT Mesra. Students can apply for internships in the following fields:

#### Engineering & Technology:

- **Computer Science & Engineering (CSE)** – Deep learning, Information Security, Formal Verification, Medical Image processing, Multimedia Forensics
- **Electronics & Communication Engineering (ECE)** – Embedded System Design, Semiconductor Startup: Chip Design, Digital System Design with VHDL & Verilog, Microelectromechanical Systems, Computer Vision, Unmanned Aerial Vehicle (UAV), Unmanned Hydro vehicle
- **Electrical & Electronics Engineering (EEE)** – Machine learning applications for smart grid with IoT hardware implementation, Faults diagnostics in BLDC/PMSM motor in MATLAB environment, EV motor drives, Bio Medical Instrumentation, Renewable Energy Integration and Energy Management
- **Mechanical Engineering (ME)** – Particulate Flow & Particle Technology, Plastic deformation in metal and alloys, Mass Energy Balance in Biogas Plant, Continuous slab caster, Renewable Energy, Biomedical, Composite Materials, Wind Tunnel Testing, Surface coating & tribology
- **Civil Engineering (CE)** – Structural engineering, Geotechnical engineering, Transportation engineering, Environmental science and engineering
- **Chemical Engineering (ChE)** Alternative fuels, Modelling with ML, Advanced Materials, Computational design & Engg., Energy devices, Electrochemical applications etc.
- **Biotechnology & Bioengineering** – Microbiology, Bioinformatics, Molecular Biology, Bioprocess Technology

#### Sciences & Applied Research:

- **Physics** – Experimental condensed matter physics, Theoretical condensed matter physics, Photonics, cosmology, environmental science, Biophysics, nuclear physics
- **Chemistry** – Polymer & Environment, Hydrogen fuel production through organic compounds, Low-cost catalyst for Hydrogen evolution reaction, Energy for photovoltaics, Biomedical implants
- **Mathematics** – Operation Research, Decision Sciences, Numerical Analysis, Mathematical Analysis, Soft Computing: Optimization and Applications, Fluid Dynamics, Quantum Information and Computation, Theoretical Computer Science, Mathematical Modelling, Fractional Calculus
- **Data Science, Economics and Statistics (QEDS)**

#### Management & Humanities:

- **Management (MBA)** – Marketing Analytics and other domains
- **Architecture & Planning** – Architecture, Urban planning and other domains

### 3. Eligibility Criteria

The internship program is open to students from **BIT Mesra** and other recognized institutions in India and abroad.

#### Who Can Apply?

- **Undergraduate students** (B.Tech/B.E./B.Arch, B.Com, BBA) who have completed at least **2nd year**.
- **Postgraduate students** (M.Tech/M.Sc./MBA) in relevant disciplines.
- Students from **other reputed institutions (IITs, NITs, IIITs, and private universities)** can also apply.

#### Prerequisites:

- Strong interest in research/industry-based projects.
- UG/PG students from recognized institutions (India/Abroad)
- Recent UG/PG graduates (within six months of degree completion)
- Minimum requirement: **60% aggregate or CGPA 6.32/10 at all levels**

#### Application Link:

[https://docs.google.com/forms/d/e/1FAIpQLSd6qVfrS\\_Sqkl6\\_t5w20w-UsO6iwkNedBgJ\\_d4D-aLYATejDA/viewform?pli=1](https://docs.google.com/forms/d/e/1FAIpQLSd6qVfrS_Sqkl6_t5w20w-UsO6iwkNedBgJ_d4D-aLYATejDA/viewform?pli=1)

#### Program Details

##### Duration:

1st Week of June 2026 – 4th Week of July 2026

##### Financials

- **No stipend will be provided**
- **No registration or participation fee**
- **Accommodation (optional and subject to availability in hostel rooms) will be provided on a chargeable basis: ₹5,500 per month (excluding food)**

#### 4. Duration & Important Dates

The internship is typically conducted during the **summer break (1<sup>st</sup> week of June – 4<sup>th</sup> week of July 2025, Flexible)**.

Event	Date
Applications Open	March 21, 2026
Application Deadline	April 30, 2026

Event	Date
Selection Announcement	May 15, 2026
Internship Start Date	June 01, 2026
Internship End Date	July 31, 2026

## 5. Application Process

### Step 1: Online Registration

- Visit the official **SIPAR 2026 portal** ([bitmesra.ac.in/internship](http://bitmesra.ac.in/internship)).
- Fill out the **online application form** with personal details and academic information.

### Step 2: Document Submission

Upload the following documents:

- **Updated Resume**
- **Letter of Recommendation (LOR)** (from a faculty member)
- **Statement of Purpose (SOP)** (500 words explaining interest in the internship)
- **Academic Transcripts** (latest semester marksheet)

### Step 3: Selection Process

- Applications will be **shortlisted based on academic performance** and relevant skills.
- Shortlisted candidates might be called for **online interviews** (optional for some projects).
- Final selection emails will be sent by **May 15, 2026**.

## 6. Internship Structure

The SIP 2026 will be structured as follows:

### Mode:

- **On-Campus & Remote Options** (depending on the project).

### Internship Components:

1. **Project Work:** Interns will work on research or industry projects under faculty mentors.
2. **Workshops & Training:** Hands-on sessions on trending technologies and methodologies.
3. **Guest Lectures:** Industry experts and BIT alumni will conduct interactive talks.
4. **Weekly Evaluations:** Interns must submit progress reports for feedback.
5. **Final Presentation & Report:** Interns will present their findings at the end of the internship.

### Stipend & Financial Support:

- **Stipends may be offered** for selected high-performing interns (depends on funding).
- **No registration fee** for BIT Mesra students; external students may pay a **nominal fee** for access to resources.

## 7. Certification & Evaluation

Upon successful completion, interns will receive:

- **Internship Completion Certificate** from BIT Mesra.
- **Letter of Recommendation (LOR)** for outstanding performers.
- **Opportunity to publish research findings** in collaboration with BIT faculty.

## 8. Accommodation & Campus Facilities

- **On-campus hostel accommodation** available for external students (limited seats).
- Access to **library, labs, and computing resources**.
- Mess and food facilities available on a **chargeable basis**.

#### 9. Contact Information

For queries related to SIP 2026, contact: **Email:** [ar.src@bitmesra.ac.in](mailto:ar.src@bitmesra.ac.in)

