Academic Achievements

- Awarded **Dr. Himangshu Roy Memorial Young Scientist Award (2023)** by The Zoological Society, Kolkata.
- Awarded **Prime Minister's Research Fellowship (PMRF)** by Ministry of Education, Government of India for pursuing doctoral research.
- Qualified **Graduate Aptitude Test in Engineering (GATE 2019)**
- **Departmental Rank – 2nd**, M.Sc Biotechnology Batch (2016-2018) (VIT, Vellore).
- Awarded **Institute Merit Scholarship** during Master's Degree (M.Sc. Biotechnology) (2016 - 2018) (VIT, Vellore).
- Selected for **DST-INSPIRE Internship Science Camp (2011).**

Honors & awards

- Awarded "**Best Poster Presentation Award**" sponsored by *Science Advances: AAAS* at 12th World Biomaterials Congress (WBC 2024) held at Daegu, Republic of Korea on May 26th ~ 31st, 2024.
- Awarded "**1st Place in Poster Presentation Competition**" by Next Big Innovation Labs, India for my work on "Microfluidic Human Physiomimetic Liver Model as a Screening Platform Recapitulates Intrinsic and Idiosyncratic Drug Toxicity" (2024).
- Acted as a **resource person** in *Startup Conclave "Kickstart 3.0"* organized by IITG BioNEST, held at IIT Guwahati, Guwahati, Assam, India on April 29 & 30, 2024.
- Acted as a **resource person** in INUP-i2i Offline Familiarization Workshop on *"Nano- and Bio-electronics: Fabrication and Characterization"* organized by Centre for Nanotechnology, at the Indian Institute of Technology Guwahati, Guwahati, Assam, India on April 8th-10th, 2024.
- Awarded *Springer In vitro models* "**Best Poster Award**" at International Conference on Biomaterials, Regenerative Medicine and Devices (BIO-Remedi 2022) held at IIT Guwahati, Guwahati, Assam, India on 14th Dec – 18th Dec, 2022.
- Acted as a **resource person** in *Pre-conference Workshop* "3D Bioprinting Module" at International Conference on Biomaterials, Regenerative Medicine and Devices (BIO-Remedi 2022) held at IIT Guwahati, Guwahati, Assam, India on 14th Dec – 18th Dec, 2022.
- Acted as **student co-chair** at International Conference on Biomaterials, Regenerative Medicine and Devices (BIO-Remedi 2022) held at IIT Guwahati, Guwahati, Assam, India on 14th Dec – 18th Dec, 2022.
- Highlighted as "**Commendable Research by PMRFs**" under the category "*Interdisciplinary areas in Science and Engineering*" as chosen by the National Review

Panel, National Coordination Committee (NCC), Ministry of Education, Govt. of India. (2022-2023).

- Team (Silk based 3D bioprinted human tissues, members included **Dey S**, Bandyopadhay A, Mehrotra S, Bhunia BK and Mandal BB), presented our work on "3D Bioprinting" and was awarded "**Third Prize for model presentation**" in Research Conclave'19 at IIT Guwahati during 14th – 17th March, 2019.
- Team (Silk-Bots, members include Singh YP, Bhunia BK, Mehrotra S, **Dey S**, Bandyopadhay A, Mandal BB), presented our work on "3D Bioprinting" and awarded the "**Best project from IIT Guwahati**" in TechExpo 2018 organized during Techniche 2018 at IIT Guwahati during 30th August to 2nd September 2018.
- **"Commendable Performance Award"** given by St. Augustine's Day School, Kolkata. (2012-2013).
- Awarded **"2nd Prize"** in Science Exhibition organized by St. Augustine's Day School, Kolkata. (2011) on my work entitled "Extraction of DNA in Kitchen".

Projects Sponsored by Department of Science & Technology (DST), Government of India (NewGen IEDC, IIT Guwahati)

The following projects were selected under the New Generation Innovation and Entrepreneurship Development Centre (NewGen IEDC) programme launched by National Science and Technology Entrepreneurship Development Board (NSTEDB), Department of Science & Technology (DST), Government of India. The projects were supervised by Prof. Biman B. Mandal, Department of Bioscience and Bioengineering, IIT Guwahati.

1. "***In vitro 3D skin model for high throughput drug screening applications"*** consisting of a student team (Bibrita Bhar, Kodieswaram M, **Souradeep Dey** and Chitra Jaiswal) (*2022-2023*). **(Funding INR 2.50 lacs)**
2. "***Silk based oxygenating spray formulation for chronic wound healing"*** consisting of a student team (Kodieswaram M, Bibrita Bhar, Rajat Dadheech and **Souradeep Dey**) (*2022-2023*). **(Funding INR 2.50 lacs)**
3. ***"Clinically Relevant Silk-based 3D Printed Small Diameter "Biotube" Vascular Grafts as Sustainable and Affordable Healthcare Product"*** consisting of a student team (**Souradeep Dey,** Bibrita Bhar, Chitra Jaiswal and Ashutosh Bandyopadhyay) (*2021-2022*). **(Funding INR 2.50 lacs)**
4. ***"3D Printed Silk-based Affordable Patient-specific Platelet Rich Plasma Functionalized Knee Meniscus Implants for Treatment of Knee Injuries"*** consisting of a student team (Ashutosh Bandyopadhyay**, Souradeep Dey,** Sayanti Shome and Ananya Das) (*2021-2022*). **(Funding INR 2.50 lacs)**

5. "***Affordable Electronic Smart Bandage for Accelerated Wound Healing***" consisting of a student team (Bibrita Bhar, Rajan Singh, **Souradeep Dey** and Janani G) and co-supervised by Prof. Roy P. Paily, Department of Electronics & Electrical Engineering, IIT Guwahati (*2020-2021*). **(Funding INR 2.50 lacs)**