



Partha Sarathi Mohanty

📍 **Address:** C/O Nityananda Mohanty, Blaram Smruti, Gopa, Kendrapara dist., 754211, Kendrapara, India

✉ **Email address:** partha.sarathi1999@outlook.com ☎ **Phone number:** (+91) 8327755286

☎ **Phone number:** (+91) 8455803582

Gender: Male **Date of birth:** 16/04/1999 **Nationality:** Indian

WORK EXPERIENCE

[04/05/2018 – 02/06/2018] **Summer Intern**

Dai-ichi Karkaria Ltd.

City: Bharuch, Gujarat

Country: India

Main activities and responsibilities:

The aim was to gain real-life experience in the industry and face the procedures and problems that have been faced and try to fix or find an alternative. The COD and BOD of industrial waste were tested initially and after treatment. The treatment was then optimized to reduce the oxygen demand. Additionally, preliminary training in handling sewage plants was provided by technicians.

EDUCATION AND TRAINING

[01/11/2020 – Current] **Masters of Technology in Biotechnology**

Anna University <https://www.annauniv.edu/>

Address: CLRI Road, Guindy, Chennai, Tamilnadu, 600025, Chennai, India

Field(s) of study: Natural sciences, mathematics and statistics : *Biology Biochemistry*

Final grade: 9.2

Main subject / occupational skills covered:

Subjects: Immunotechnology, Metabolic engineering, Tissue engineering, Techniques in molecular biology, Animal Biotechnology, Proteomics and genomics, Computational Biology, Molecular Pathogenesis

Techniques: ELISA, Western Blotting, Cloning, Cell culture techniques, SDS-PAGE, Ultrafiltration, UFLC, Kinetic studies

[01/07/2016 – 01/05/2020] **Bachelor's of technology in Biotechnology**

Vellore Institute of Technology <https://vit.ac.in/>

Address: Tiruvalam Rd, Katpadi, Vellore, 632014, Vellore, India

Field(s) of study: Natural sciences, mathematics and statistics : *Biology Biochemistry*

Final grade: 9.37

Thesis: Development of genetic reporters for inclusion damage during infection with Chlamydia trachomatis

Main subject / occupational skills covered:
cell culture

Electrophoresis

Bioinformatics

molecular biology tech. (Cell transduction using lentivirus, PCR, plasmid transformation)

microbiology tech.

spectroscopic tech.

Immunofluorescence

[01/06/2014 – 01/05/2016] **Higher secondary education**

Sri Chaitanya Vidya Niketan

Address: Marikavalasa, Madhurawada, 530041, Visakhapatnam, India

Final grade: 86.4%

LANGUAGE SKILLS

Mother tongue(s): Odia

Other language(s):

Hindi

LISTENING C2 **READING** C1 **WRITING** B2

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C2

English

LISTENING C1 **READING** C1 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

Spanish

LISTENING A2 **READING** B1 **WRITING** A2

SPOKEN PRODUCTION A1 **SPOKEN INTERACTION** A1

Chinese

LISTENING A1 **READING** A1 **WRITING** A1

SPOKEN PRODUCTION A1 **SPOKEN INTERACTION** A1

Japanese

LISTENING A1 **READING** A1 **WRITING** A1

SPOKEN PRODUCTION A1 **SPOKEN INTERACTION** A1

DIGITAL SKILLS

Microsoft Word | Microsoft Powerpoint | Google Drive | Social Media | Zoom |
Bioinformatics tools (NCBI) | Molecular docking | Virtual Screening | Site Directed
Mutagenesis | AutoDockTools

PUBLICATIONS

[2017]

Detection of Food Adulterants in Chilli, Turmeric and Coriander Powders by Physical and Chemical Methods

<https://rjptonline.org/HTMLPaper.aspx?Journal=Research Journal of Pharmacy and Technology;PID=2017-10-9-42>

Reference: Suneetha V

This study on “detection of food adulterants in chilli powder, turmeric powder and coriander powder using physical and chemical methods.” Was conceived and carried out with the objective of identifying the presence of adulteration in chilli powder, turmeric powder and coriander powder (the major spices used for cooking in India).

PROJECTS

[01/07/2018 – 01/11/2018] **Bilayer schaffold with different levels of porosity using biomaterials**

A bilayer agarose schaffold was prepared using freeze drying method with two different conc. Of biomaterial to ease delivery of drug.

[01/12/2017 – 01/03/2018]

Nanoparticle mediated Hyperthermia treatment: mathematical equation revisited

A mathematical equation expressing heat transfer in hyperthermia treatment in cancer was revisited and additional parameters like perfusion rate and specific heat of blood as a barrier were added.

No experimental confirmation was performed

[12/09/2017 – 04/05/2018] **HSA-BIOTIN interaction study using spectrometry**

A group working on the analysis of binding efficiency of HSA and biotin using spectrometric techniques and UV CD

[01/11/2018 – 01/04/2019] **Spice decoction for Oral Microbes**

The group project was to prepare a spice decoction using normal household spices used in culinary to combat dental plaque and prevent growth of oral pathogens responsible for foul smell and oral diseases.

[31/07/2019 – 08/04/2020]

Phylogenetic relationship of conserved and non conserved proteins across model organisms

Choosing one conserved and one non conserved protein from a set of model organisms, a computational comparative study was performed to show phylogenetic relationships.

[01/07/2019 – Current] **Prospect of metabolic engineering in Carbon fixation**

An ongoing book chapter to be published in "BIOENGINEERING: REMODELING CELLULAR ARCHITECTURE TO INDUSTRIAL DESIGN" by CRC press, Taylor and Francis group.

[01/11/2016 – 01/02/2017] **Classification of birds according to nest pattern**

A survey conducted to find out different types of birds in a local area according to their nesting pattern

HONOURS AND AWARDS

[06/04/2019] **Merit rank Awarding institution:** Vellore institute of technology

Top 10th rank in the batch of 2016-20 B.tech Biotechnology in VIT

[14/04/2019] **HSK level 1 Awarding institution:** Confucius Institute Headquarters Hanban

Qualified Official Chinese proficiency test HSK 1 with 194/200 and 80 percentile rank.

HOBBIES AND INTERESTS

Learning languages

Currently I have basic knowledge on Japanese, Korean, Mandarin and Spanish. Wish to learn many other languages

Drawing

Like to draw inanimate objects, birds, landscapes

Reading fantasy novels

Harry potter series is all time favorite

Listening to music

Enjoy classical and regional musics

Cooking

Love to cook oriental dishes

Watching anime and reading manga

VOLUNTEERING

[01/02/2020 – 03/02/2020] **Plantation event** Vellore, Chennai

A plantation awareness event organized by the Nature club of VIT to gift plants to primary school students and some entertainment activities

[01/06/2017 – 01/07/2019] **Biosummit**

A Biotechnology school event organized by SBST of VIT where volunteered as Guestcare manager and organizer for two consecutive years.