

## **BIO-DATA**

### **SIBO BORO**

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### **CAREER OBJECTIVE:**

Explore avenues that offer opportunities for growth and development, and collaborate with a team that contributes to the organization's success.

### **PROFESSIONAL PROFILE:**

Budding professional with a B.Tech in Food Processing Technology (CIT, Kokrajhar, Assam), M.Tech in Food Engineering & Technology (Tezpur University, Assam), M.Phil in Biotechnology (Bodoland University) and pursuing Ph.D at Department of Food Process Engineering (NIT, Rourkela). Consistent academic records with a zeal to learn new concepts quickly and apply innovative ideas to achieve best results. Strong communication and interpersonal skills.

### **SKILLS & TECHNICAL PROFICIENCY**

- **Well-versed in MS Office Suite** (MS Excel, MS Word, MS PowerPoint)
- **Administrative Skills:** Experience in handling minor official tasks, including account maintenance, expenditure bill management, and preparation of Utilization Certificates (UC) and Statements of Expenditure (SoE) for projects.
- **Statistical Analysis:** Proficient in software like Origin and Design Expert for data analysis
- **Design & Multimedia:** Familiar with Adobe Photoshop for design-related tasks
- **Internet & IT Applications:** Skilled in online research, data management, and internet-based applications

### **TRAINING/CONFERENCE/WORKSHOP EXPERIENCE:**

- I Completed Hands – on Short term training “**Plastic processing techniques & quality assurance (PPTQA)**” (**Fifteen days**) at Central institute of plastic engineering & Technology, Haldia, West Bengal, India.

- II. Completed Hands – on Short term course “**Potato and its cold storage**” at department Agricultural and Food engineering, IIT Kharagpur, West Bengal, India (**Five days**).
- III. Completed Hands - on Full time course of Advance training in “**TMC chromatographic methods of analysis**” at Advance Training Institute, Chennai, India (**one week**).
- IV. Participated in the 3<sup>rd</sup> International Conference on Food Technology 2013: “**Food Processing Technologies- Challenges & Solutions for Sustainable Food security**” conducted at Indian Institute of Crop Processing Technology, Thanjavur, India.
- V. Participated in **State Level 25<sup>th</sup> National Children’s Science Congress**, Assam, 2017, and secured **2<sup>nd</sup> position** in the Science Model Exhibition Silver Jubilee Celebration held at Kokrajhar Girls’ H.S. School and Kokrajhar Govt. H.S. & M.P. School field of Kokrajhar, B.T.A.D, Assam on and from 25<sup>th</sup> to 28<sup>th</sup> October, 2017.
- VI. Participated in one week **3<sup>rd</sup> Entrepreneurship Skill Development Programme** organized by Central Institute of Technology, Kokrajhar from 29<sup>th</sup> to 2<sup>nd</sup> April, 2018.
- VII. Worked as Junior Research Fellow under DBT-GoI sponsored project “**Technology Incubation Centre for Entrepreneurship Development on Mushroom Culture and Farming**” at Bodoland University, Kokrajhar, Assam, India (**From 26th of July, 2017 to 31<sup>st</sup> March, 2019**).
- VIII. Worked as Project Associate 1 under DBT-GoI sponsored project “**Technology Incubation Centre for Entrepreneurship Development on Mushroom Culture and Farming**” at Bodoland University, Kokrajhar, Assam, India (**From 1<sup>st</sup> April, 2019 to 26<sup>th</sup> July, 2020**).
- IX. Participated and completed the online **Faculty Development Programme on Fermented Foods and Beverages** from 18<sup>th</sup> to 22<sup>nd</sup> August, 2020, organized by Department of Chemistry, Central Institute of Technology, Kokrajhar, Assam, India.
- X. Organized 5 days hands on training on “**Mushroom Spawn Production and Cultivation of Oyster Mushroom**” from 25<sup>th</sup> to 29<sup>th</sup> September, 2020 by DBT-GoI sponsored “Technology Incubation Centre for Entrepreneurship Development

on Mushroom Culture and Farming” at Technology Incubation Centre, Bodoland University, Kokrajhar, BTAD, Assam.

- XI. Organized 5 days hands on training on “**Mushroom Spawn Production and Cultivation of Oyster Mushroom**” from 15<sup>th</sup> to 19<sup>th</sup> November, 2020 by DBT-GoI sponsored “Technology Incubation Centre for Entrepreneurship Development on Mushroom Culture and Farming” at Technology Incubation Centre, Bodoland University, Kokrajhar, BTAD, Assam.
- XII. Participated on International Conference on **Emerging Techniques in Food Processing (ETFP)**, organized by Department of Food Processing Technology, Ghani Khan Choudhury Institute of Engineering and Technology Malda on 25<sup>th</sup> to 26<sup>th</sup> March, 2021.
- XIII. Participated in **SAFETY-2021** organized by the Department of Food Engineering & Technology, Tezpur University, Assam, India, and Department of Food Science & Technology, University of Georgia, Georgia (US) in Association with AFST(I) Tezpur chapter during 24<sup>th</sup>-25<sup>th</sup> June, 2021.
- XIV. Presented as poster presenter on “Optimization of development of high fiber fortified mushroom (*Volvariella* sp.) biscuit using Response Surface Methodology (RSM) at **SAFETY 2021**, organized by Department of Food Engineering & Technology, Tezpur University, Assam, India, and Department of Food Science & Technology, University of Georgia, Georgia (US) in association with AFST(I) Tezpur Chapter during 24<sup>th</sup> -25<sup>th</sup> June, 2021.
- XV. Participated as paper presenter in International seminar on **Prospect, Avenues and Challenges in Functional Mycology** on topic “Development of fortified mushroom biscuit from *Volvariella* sp. using Response Surface Methodology on the event of **1<sup>st</sup> Bodoland Mushroom Mela** jointly organized by DBT-GoI of India sponsored Technology Incubation Centre on mushroom at Bodoland University (Assam) and Department of Agriculture, Bodoland Territorial Region (Assam) on 23<sup>rd</sup> and 24<sup>th</sup> March, 2022.
- XVI. Working as Project Associate 1 under DBT-GoI sponsored project “**Biotech-Krishi Innovation Science Application Network for upliftment of cultivation of basic mushroom, value added mushroom products and spawn production for rural entrepreneurs of Kokrajhar, Chirang, Baksa and Udalguri districts of Assam**”

**Assam for livelihood generation”** at Bodoland University, Kokrajhar, Assam, India **(from 14<sup>th</sup> May, 2022 to 14<sup>th</sup> May, 2024).**

XVII. Participated on DBT-Govt. of India Sponsored hands on training on “**Fresh water pearl cultivation for entrepreneurship development**” at Technology Incubation Centre for entrepreneurship development on mushroom culture and farming, and Biotech Kisan Hub, Bodoland University, Kokrajhar, Assam from 15<sup>th</sup> to 16<sup>th</sup> October, 2022.

XVIII. Participated as poster presenter in “**Bodoland International Knowledge Festival 2023**” on topic “*Hibiscus sabdariffa*: A scientific approach to identify bioactive compound by FT-IR and GC-MS jointly organized by BTR govt. and Bodoland University, Kokrajhar, India from 27<sup>th</sup> February to 2<sup>nd</sup> March, 2023.

XIX. Participated on National Conference on “**Underutilized Food Resources: Nutrient Composition, Value Addition and Quality Assurance**”, organized by Department of Food Technology, Mizoram University, Aizawl, Mizoram, India-786004 on 25<sup>th</sup> to 26<sup>th</sup> May, 2023.

XX. Participated as resource person in 3 days hand on training cum workshop on “**Application of High Pressure Liquid Chromatography**” at Department of Biotechnology (Govt. of India) sponsored Advanced Level Institutional Biotech Hub, Bodoland University from 18<sup>th</sup> to 20<sup>th</sup> September, 2023.

XXI. Participated on one day online training on “**Rice Fortification Technology**” organized by Innovation Hub on Rice Fortification, IIT Kharagpur Center on 26<sup>th</sup> September, 2023.

XXII. Participated in the one-day International webinar on “**Emerging Approaches in Food Processing Technology**” organized by the DSLD-College of Horticultural Engineering and Food Technology, Devihosur, Haveri, Karnataka, India held on 6th October, 2023.

XXIII. Participated in e-workshop on “**Data-Analysis with SPSS**” organized by Commacad from 9<sup>th</sup> – 10<sup>th</sup> December, 2023.

XXIV. Participated in e-workshop on “**Reference Management Using Mendeley**” organized by Commacad on 28<sup>th</sup> April, 2024.

XXV. Participated in the 5-days GIAN sponsored workshop on “**Precision fermentation for sustainable manufacturing of bio-actives and industrial**

**biochemicals**” organized by Department of Food Process Engineering and Department of Biotechnology and Medical Engineering, National Institute of Technology Rourkela, Odisha, from 2<sup>nd</sup>–6<sup>th</sup> December, 2024.

XXVI. Participated in the 5-days SPARC sponsored workshop on “**Advances in Sustainable Food Packaging Systems**” (Hybrid mode) organized by Department of Food Process Engineering and Department of Biotechnology and Medical Engineering, National Institute of Technology Rourkela, Odisha, from 2<sup>nd</sup>–6<sup>th</sup> December, 2024.

XXVII. Presented a paper presentation in the one-day seminar on “**Materials challenges in Marine application (MCMA-2024)**”, by the Institute of Engineers (India) in association with National Institute of Technology, Rourkela, Odisha on December 28, 2024.

XXVIII. Received certificate of appreciation for being part of the organizing committee in 5-days GIAN course on “**Sustainable Approaches in Postharvest Handling and Value Addition of Fresh Produce**” conducted from 27<sup>th</sup> -31<sup>st</sup> January, 2025 at the Department of Food Process Engineering, NIT Rourkela, Odisha.

## **ACHIEVEMENTS:**

<b>Awards And Honours:</b>	
2024	National Fellowship for Higher Education of ST Students (NFST-2022-23) Award No: 202324-NFST-ASS-00480 dated 27 <sup>th</sup> February, 2024
2022-2023	Working as <b>Project Associate 1</b> under the DBT GoI Sponsored project “Biotech-Krishi Innovation Science Application Network for upliftment of cultivation of basic mushroom, value added mushroom products and spawn production for rural entrepreneurs of Kokrajhar, Chirang, Baksa and Udaguri districts of Assam for livelihood generation” at Dept. of Biotechnology, Bodoland University, Assam, India.
2019-2020	Received one time scholarship under scheme “ <b>SSH (CTA) Scholarship to Tribal M.Phil/Ph.D Scholars</b> ” during financial year 2019-2020 from Assam Institute of Research for Tribal and Scheduled Casts, Govt. of Assam, India.
2019-2020	Worked as <b>Project Associate 1</b> under the DBT GoI Sponsored project “Technology Incubation Centre for Entrepreneurship Development on Mushroom Culture and Farming” at Dept. of Biotechnology, Bodoland University, Assam, India.
2017-2019	Worked as <b>Junior Research Fellow</b> under the DBT GoI Sponsored project “Technology Incubation Centre for Entrepreneurship Development on Mushroom Culture and Farming” at Dept. of Biotechnology, Bodoland University, Assam, India.
2014-	Received “ <b>Post Graduate Scholarship for Professional Course for SC/ST</b>

2016	<b>Candidate</b> " by University Grant Commission (UGC), Govt. of India during M.Tech programme.
2010-2014	Received ST scholarship from Govt. of Assam, India during B.Tech programme.
2010	Qualified All India Engineering/Architechture Entrance Examination ( <b>AIEEE-2010</b> ) conducted by Central Board of Secondary Education.
2007	Received " <b>Anundoram Barooah Cash-cum Laptop Award Scheme</b> " from Govt. of Assam for securing 1 <sup>st</sup> division in HSLC.

### ACADEMICS:

Course	Institute	Year	Mark	Class
<b>PhD (Food Process Engineering)</b>	NIT, Rourkela	2024-Cont.		
<b>M.Phil (Biotechnology)</b>	Bodoland University, Kokrajhar, Assam	2019-2022	submitted	submitted
<b>M.Tech (Food Engineering &amp; Technology)</b>	Tezpur University, Assam, India	2016	8.79	I <sup>st</sup> class
<b>B.Tech (Food Processing Technology)</b>	CIT, Kokrajhar, Assam, India	2014	9.01	I <sup>st</sup> class
<b>Class 12<sup>th</sup> (AHSEC)</b>	Tangla College, Tangla, Assam, India	2009	62.80%	I <sup>st</sup> class
<b>Class 10<sup>th</sup> (HSLC)</b>	Tangla English Medium High School, Tangla, Assam, India	2007	64.67%	I <sup>st</sup> class

### RESEARCH PROJECT DETAILS

- **B.Tech:**

Effect of decaffeination on antioxidant property of green tea found in Assam, India.

- **M.Tech:**

Optimization of microwave-vacuum drying of Poniol (*Flacourzia jangomas*) fruit and its encapsulation by co-crystallization.

- **M.Phil:**

A study on development of fortified biscuit from *Cantharellus sp.* and *Volvariella sp.* locally available in Kokrajhar district, Assam, India.

**Publication:**

1. Dash, K. K., **Boro, S.**, & Bhagya Raj, G. V. S. Effect of ultrasound pretreatment and microwave vacuum drying in the production of dried poniol fruit. *Journal of Food Process Engineering*, e14301.

**Book Chapter:**

1. **Boro, S.**, Ray, D., Rai, U., & Das, S (2022). Valorization of food products by edible mushroom fortification. *Life sciences: Trends and technology*, 149. Scieng publication, Tamilnadu (ISBN: 978-93-94766-25-9).
2. **Boro, S.**, Brahma, G., Ray, D., Das, A., & Das, S (2024). Current development in non-dairy probiotic beverage: an associated health benefits. *Futuristic Trends in Agriculture Engineering & Food Sciences*, Volume 3 Book 5. Selfypage Developers Pvt Ltd. (ISBN: 978-93-5747-705-5).
3. Ray, D., **Boro, S.**, Rai, U., Sharma, P., Das, P., & Das, S. (2024). Cadmium (Cd) Tolerance and Mitigation in Plants: The Role of Arbuscular Mycorrhizal Fungi (AMF). In *Present Status and Prospects of Plant Associated Fungi* (pp. 564-583). Cambridge Scholars Publishing, UK. ISBN: 978-1-0364-0808-4 (Print), 978-1-0364-0809-1 (E-book).
4. Rai, U., Ray, D., **Boro, S.**, Sharma, P., Das, P., & Das, S (2024). *Plant Associated Fungi: Application and Promises in Pharmaceutical and Other Industries*. In *Present Status and Prospects of Plant Associated Fungi* (pp. 584-611). Cambridge Scholars Publishing, UK. ISBN: 978-1-0364-0808-4 (Print), 978-1-0364-0809-1 (E-book).

**PERSONAL DETAILS:**

- **Date of birth** : 15<sup>th</sup> June, 1990
- **Marital status** : Married
- **Address** : Vill-Rambari, PO-Murmela, PS-Tangla, Dist.-Udalguri, Pin-784521, Assam, India.
- **Languages known** : English, Hindi, Assamese, Bodo.
- **Hobbies** : Playing cricket and travelling