

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) and M.Phil in Biotechnology (Bodoland University). 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 3rd 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 25th National Children’s Science Congress**, Assam, 2017, and secured **2nd 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 25th to 28th October, 2017.
- VI. Participated in one week **3rd Entrepreneurship Skill Development Programme** organized by Central Institute of Technology, Kokrajhar from 29th to 2nd 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 31st 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 1st April, 2019 to 26th July, 2020**).
- IX. Participated and completed the online **Faculty Development Programme on Fermented Foods and Beverages** from 18th to 22nd 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 25th to 29th September, 2020 by DBT-GoI sponsored “Technology Incubation Centre for Entrepreneurship Development, Bodoland University, Kokrajhar, BTAD, Assam.
- XI. Organized 5 days hands on training on “**Mushroom Spawn Production and Cultivation of Oyster Mushroom**” from 15th to 19th 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 25th to 26th 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 24th-25th 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 24th -25th 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 **1st Bodoland Mushroom Mela** jointly organized by DBT-Govt. of India sponsored Technology Incubation Centre on mushroom at Bodoland University (Assam) and Department of Agriculture, Bodoland Territorial Region (Assam) on 23rd and 24th 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 for livelihood generation**” at Bodoland University, Kokrajhar, Assam, India (from 14th May, 2022 to 14th 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 15th to 16th 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 27th February to 2nd 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, Aizawal, Mizoram, India-786004 on 25th to 26th 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 18th to 20th September, 2023.
- XXI. Participated on one day online training on “**Rice Fortification Technology**” organized by Innovation Hub on Rice Fortification, IIT Kharagpur Center on 26th 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 9th – 10th December, 2023.
- XXIV. Participated in e-workshop on “**Reference Management Using Mendeley**” organized by Commacad on 28th 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 2nd–6th 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 2nd–6th 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 27th -31st January, 2025 at the Department of Food Process Engineering, NIT Rourkela, Odisha.

ACHIEVEMENTS: Awards And Honors:

2025 till date	Worked as Senior Instructor at Department of Food Technology, Assam Skill University, Assam, India-784125
2024	National Fellowship for Higher Education of ST Students (NFST-2022-23) Award No: 202324-NFST-ASS-00480 dated 27th February, 2024
2022-2023	Working as Project Associate 1 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 Udalguri districts of Assam for livelihood generation” at Dept. of Biotechnology, Bodoland University, Assam, India.
2019-2020	Received one time scholarship under scheme “ SSH (CTA) Scholarship to Tribal M.Phil/Ph.D Scholars ” during financial year 2019-2020 from Assam Institute of Research for Tribal and Scheduled Casts, Govt. of Assam, India.
2019-2020	Worked as Project Associate 1 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 Junior Research Fellow 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 “ Post Graduate Scholarship for Professional Course for SC/ST ”

2016	Candidate ” 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/Architecture Entrance Examination (AIEEE-2010) conducted by Central Board of Secondary Education.
2007	Received “ Anundoram Barooah Cash-cum Laptop Award Scheme ” from Govt. of Assam for securing 1 st division in HSLC.

ACADEMICS: Course	Institute	Year	Mark	Class
M.Phil (Biotechnology)	Bodoland University, Kokrajhar, Assam	2019-2022	submitted	submitted
M.Tech (Food Engineering & Technology)	Tezpur University, Assam, India	2016	8.79	Ist class
B.Tech (Food Processing Technology)	CIT, Kokrajhar, Assam, India	2014	9.01	Ist class
Class 12th (AHSEC)	Tangla College, Tangla, Assam, India	2009	62.80%	Ist class
Class 10th (HSLC)	Tangla English Medium High School, Tangla, Assam, India	2007	64.67%	Ist 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 (*Flacoutia 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.
2. Boro, S., Kambhampati, V., Das, S., & Saikia, D. (2025). Edible mushrooms as meat analogues: A comprehensive review of nutritional, therapeutic, and market potential. *Food Research International*, 214, 116632.
3. Gite, S. S., Sivaraj, D., Karmakar, M., Rasmi, P. K., Boro, S., Dalbhat, C. G., ... & Singh, S. (2025). Extrusion-Induced Modulation in Functional and Structural Aspects of Pseudocereals-Based Extrudates. *Food and Humanity*, 100905.

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. Selfpage 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).

Reviewer:

1. Food Research International (Elsevier, Impact factor: 8.8)
2. International Journal of Food Science (Wiley, Impact factor: 3.3)

Resource Person/Invited Talks:

1. Invited as an Expert Speaker for an online Expert Talk on “Health and Wellness Trends in Bakery and Confectionery,” organized by the Department of Dairy & Food Technology, Parul Institute of Technology, Parul University, under the Three-Day Skill Enhancement

Workshop “Whisk & Wonders: The Art of Baking and Confectionery” on 29 September 2025.

2. *Invited as* Resource Person (Offline) for a Hands-on Training Programme on “Value Added Products of Fish and Mushroom” held on 28th November 2025 at the Skill Satellite Center, Guwahati Biotech Park (GBP), Guwahati, Assam.
3. *Invited as* Resource Person (Offline) for "Demonstration of Beverage Processing Line" at the Technology Incubation Centre (TIC), Bodoland University, Kokrajhar, Assam on 11th July, 2026

PERSONAL DETAILS:

Date of birth : 15th June,1990

Marital status : Married

Address : Vill-Rambari, PO-Murmela, PS-Tangla, Dist.-Udalguri, Pin-784521, Assam, India.

Languages known : Bodo, Assamese, Hindi and English

Hobbies :Playing cricket and travelling

Declaration

I hereby declare that the information provided in this resume is true and correct to the best of my knowledge and belief.



Sibo Boro