



Building the East & North East Region

BioNEST Cluster

Supported by

Biotechnology Industry Research Assistance Council (BIRAC) BioNEST





East & North East Region BioNEST Cluster

To commermorate the 75 years of India's Independence in August 2022 - "Azadi Ka Amrit Mahotsav", the E&NER BioNEST Cluster brings together all the BioNEST supported incubators spread across the East and North East Region of India.

These commemoration activities are aligned with the theme "**Vigyan se Vikas**: Showcasing Potential Journey and Impact of Biotechnology on the society" towards **AtmaNirbhar Bharat.**



To enhance interactions To provide opportunities for peer-to-peer learnings & To build synergies

IN EAST & NORTH EAST REGION

MISSION —

To develop the biotech entrepreneurial ecosystem in East and North East region

CLUSTER MEMBERS

- KIIT-TBI BioNEST, Bhubaneswar Lead Incubator
- Mizoram University BioNEST, Aizaw
- NIPER BioNEST Guwahati
- IASST BioNEST, Guwahati
- IBSD BioNEST & BRDC, Imphal
- IIT-G BioNEST, Guwahati
- NEHU BioNEST, Tura Campus
- CSIR-NEIST BioNEST, Jorhat
- ILS BioNEST, Bhubaneswar



KIIT-TBI BioNEST Bioincubator

Bhubaneswar, Odisha

Focus area

Industrial Biotechnology & Clean Tech, Healthcare: Device & Diagnostics and Drugs, Agri & Food Tech, and IoT & AI/ML

USP

KIIT-TBI Bioincubator focuses on establishing innovation led technology ventures in various realm of life science. The strong and dynamic triple helix cooperation between industry, knowledge institutes and government has resulted in supporting startups and aspiring entrepreneurs working towards building innovative biotech products.

About

The BIRAC supported BioNEST- KIIT-TBI Bio-Incubator focuses on establishing innovation led technology ventures in various realm of life science. Over the years, KIIT-TBI has been working as an implementing partner of various government sponsored flagship funding and fellowship programs like DST - NIDHI EIR and PRAYAS, DBT BIRAC - Biotechnology Ignition Grant, Boeing India - BUILD Program, Invest India – Agriculture Grand Challenge and many more. It is also one of the regional centre BRTC of BIRAC, Govt. of India to promote entrepreneurial ecosystem in East and Northeast regions of India as well as the SPARSH Center, aimed at addressing the problems of societal relevance through technological solutions. The KIIT TBI Bio-Incubator is also one of the implementing partners for various flagship startups programs of BIRAC like the prestigious Biotechnology Ignition Grant (BIG), Social Innovation Fellowship (SIIP) program. KIIT-TBI Bioincubator always holds the door wide open to welcome innovations to grow into businesses by its stimulating and enterprising ecosystem.

Leadership



Dr Mrutyunjay Suar CEO,KIIT-TBI



Dr Namrata Misra Head, Bioinnovations



Dr Rajiv Kangabam Manager - BRTC



Riya Roy Program Associate Bioinnovations



Arpan Ghosh Program Associate Bioinnovations



Saikat Gupta Associate Design



Aryan Jaiswal Intern Bioinnovations



Dr Santwana Padhi Scientific Officer



Dr Mrinmoy Ghosh Manager - Technology Development & Transfer



Dr Gajraj S Kushwaha Science Manager



Aleena Das Lead - Analytical Facility



Arindam Jana
Application Scientist



Krishna Verma sociate - Scientific Visualizer

With a built-up space of 120,000 sq ft including 40,000 square feet, KIIT-TBI Bioincubator provides state the of art analytical and prototyping facilities which is well matched to the cutting-edge technology of today's and tomorrow. The Digital Fabrication Lab, Bio Design Lab, Bio process Lab, Food testing Lab, Analytical Lab, Cell culture Lab and Animal facility helps start-ups in developing new know how and technology to find solutions for a more sustainable future. It is also the nodal incubator for Food Testing Lab facility by Startup Odisha.







Portfolio

KIIT-TBI BioNEST established in 2017 has been instrumental in handholding startups in areas like Industrial Biotechnology & Clean Tech, Healthcare: Device & Diagnostics and Drugs, Agri & Food Tech, and IoT & AI/ML.

Our performance so far

122 76 675M+
Innovators Supported Startups Funds Release

40+ 1k+ 3l

Women-led enterprises Jobs created Follow-on funding

50+ 40+

IP Created Products

Commercialised

Enabling Centres

- KIIT-TBI Technology Transfer Office
- KIIT- Technology Enabling Centre
- Bhubaneswar City Knowledge Innovation Cluste

www.kiitincubator.in



Mizoram University BioNEST Bioincubator

Aizawl, Mizoram

Focus area

Environmental and Biological Sciences, Community based rural livelihood resources

USF

The bio-incubator is the first of its kind in the state which caters to technology and research driven incubation services. Located in the heart of Mizoram University, it has a wide access to infrastructure, laboratories, mentors, researchers and also a plethora of other facilities to provide a platform to enable the potential of budding and aspiring entrepreneurs.

About

The Bio-Incubator at MZU is expected to be a collaborative activity between a team of high quality researchers in the institution and researchers or research-users in several companies or organizations in and around MZU, where the nature of research is related to production or improvement of natural resources employing life science and entrepreneurship tools. The proposed Bio-Incubator at MZU (MZUBioNEST-BEM) will focus on new and emerging technologies, multidisciplinary and translational research in the areas of Biological Sciences/Biotechnology.

Mizoram University is one of the leading Central universities in the North-East region. The focus of the University has been both on teaching and research in cutting edge areas of biology, biotechnology, environment and rural extension.

Leadership



Dr H. LalhruaitluangaDirector
BioNEST Mizoram University



C. Lalruatsanga CEO, BioNEST Mizoram University



Dr Lallawmsanga Scientific Officer



Lalthafala Technical Assistan

MZU BioNEST has a high end laboratory with equipment and software tools. The startups have the access to other existing laboratories within Mizoram University, and or of any other institute/organization. To conduct any RnD work at the incubator, the innovators use the common Instrumentation/Open Laboratory, Animal Cell Culture Laboratory, Mycology Laboratory, Fruiting Chamber and also a cold room facility. Apart from the state-of-the-art infrastructural support, MZU aslo facilitates business, technical expert connects, investors network and industry connection. The BioNEST Bioincubator has helped to create a of state-of-art infrastructure and knowledge resource for budding entrepreneurs in the region.

Portfolio

- Tribeland Coffee
- Food MycoLabs
- Blue Montis
- Eco-management Services







www.mzubionest.org



NIPER BioNEST Bioincubator

Guwahati, Assam

Focus area

Healthcare and Bioinnovation

USP

NIPER-G provides different classes of incubation facilities depending on the requirements of the incubatees, so that optimum support can be given. End-to-end support for Healthcare and Bio-innovation ideas.

About

The BioNEST NIPER-G incubation center was established for the startups, students, researchers, faculty members, traditional healers and any interested individual mainly from the North East region. The incubatees of the center are mentored by experts and professionals from different domains across India through the NIPER-G network. Mentoring includes all types of scientific and technical advisory includes legal advisory, company formation, technology transfer and regulatory compliances for therapeutic products. The management experts from the advisory body of NIPER-Guwahati will provide mentoring for the pre-incubation commercial assessment, test marketing, branding, developing vendor & distribution channels and so on.

Leadership



Dr USN Murty
Director, NIPER-G&
Chairman. BioNEST NIPER-G



Dr Sonali RoyIncubation Manager
BioNEST NIPER-G



Dr VGM Naidu Co-Pl



Dr Priyanka Sharma Scientific Officer



Dr Amit Alexander Coordinator



Subham Banerjee Scientific Coordinator

The incubation centre provides lab space, office space, conference room, meeting room, central instrumentation facility, animal house, cell culture and microbial culture room and many more facilities depending on the requirement of the incubate. The central instrumentation facility of NIPER-G is well equipped with several high end equipments for almost all types of experiments related to validation of herbal products, development of phytopharmaceuticals, nutraceuticals and many more. It provides access to analytical method development and validations of Pharmaceutical and Bio pharmaceutical products by using all hyphenated techniques. Analysis of elemental impurities by ICP-MS, extractable and leachable studies of Drug formulations, DMPK and PK/PD studies, isolation and characterization studies related to small molecules, forced degradation and characterization of degradation products for small molecules, a many other analytical services are available.



Portfolio

BIG-NE Grantee



Dr Pritam Chattopadhyay



Dr Sanjay K Banerjee Dutta



Deepak Bharadwaj



Ms. Geetashori Yumnam

niperguwahati.ac.in/bionest



IASST BioNEST Bioincubator

Guwahati, Assam

Focus area

Biotechnology, Biological waste management, Bio-agriculture, Alternative Medicine, Biomedical Engineering, Bio-informatics

USP

BioNest-IASST is housed inside IASST campus which boasts of state of the art instrumentation facility, Cell culture, microbiology facility, QA/QC Analytical facility. In addition, to help the entrepreneur take the concept to product, the incubator also provides sealing and packaging facility at laboratory scale. The small but dedicated team shall help the start-ups in facets of enterprise development and scientific assistance through accumulated experiences of business and research.

About

BioNEST-IASST is nestled in Institute of Advanced Study in Science and Technology (IASST) to nurture incubators through Innovation & Entrepreneurship, Networks & Collaboration, Resource management & Outreach for the emerging Biotech/Life Science Startup Ventures. It thrives to provide instrumentation platforms for startups to help them innovate new solutions in the field of biotechnology, life sciences and applied biomedical sciences. Bionest-IASST provides hand-holding to the start-ups with respect to Intellectual property rights, Regulatory and Venture capital support along with funding support from DST, DBT and BIRAC and other agencies. Furthermore, the team is building pool of mentors in diverse fields like Enterprise Development, Marketing Expertise, Banking and Finance, IPR, Packaging, Supply Chain etc which can increase chances of start-ups becoming sustainable.

Leadership



Dr Ashis Kr. MukherjeeDirector
IASST Guwahati



Dr Devasish Chowdhu Associate Professor, BioNEST-IASST G



Chandrabhan Kakoty Manager-Incubation & Outreach



Dr Tania Paul Das Manager-Science & Technology



Minku Das Technical Assistar

IASST is engaged in multi disciplinary research activities, both in fundamental and applied, across frontier areas of science and technology such as Plasma physics, Polymer Sciences, Biochemistry, Drug design & development, Nano-science, Medicinal plants, Seri biotechnology, Microbial biotechnology, Environmental Sciences, Microbial Fuel Cell and therefore has the in-house expertise to guide start-ups in these critical areas. BioNest-IASST is housed inside IASST campus which boasts of state of the art instrumentation facility, Cell culture, microbiology facility, QA/QC Analytical facility. In addition, to help the entrepreneur take the concept to product, the incubator also provides sealing and packaging facility at laboratory scale.









Portfolio

- Milster Farms
- Dr Dipankar Lab
- Gut-Vicinta, Poohar Agro Producers Company Ltd
- Golden Beverages
- RogNidaan Technologies Pvt Ltd
- Ouija Biosolutions

srasta-iasst.org/bionest



IBSD BioNEST Bioincubator & BRDC

Imphal, Manipur | Shillong Meghalaya

Focus area

Women Bio-entrepreneurship development through Dendrobium cut-flower production

USP

IBSD and BRDC aspire to support the local women to be orchid flower entrepreneurs in the state of Meghalaya. It provides the required training and infrastructure at various regions to make the tribal women self-sustainable.

About

The Meghalaya BioNEST incubator promotes women bio-entrepreneurship through orchid floriculture and is being jointly implemented by Institute of Bioresources and Sustainable Development (IBSD) Upper Shillong Node and Bioresources Development Centre (BRDC), Govt of Meghalaya. IBSD at Ri Bhoi aspirational district has developed a Rural Bioresource Complex with orchids and seasonal flowers production units. BRDC has trained several farmers in its main campus and also its experimental farm.

This is the first BIRAC funded BioNEST incubator at Meghalaya which is now envisaged to produce several successful women orchid flower entrepreneurs in the state of Meghalaya.

Leadership



Prof Pulok Kr Mukherjee
Director
IBSD Imphal



Mr Augustus S Suting Officer on Special Duty BRDC, Govt of Meghalay

Bioincubator TeamProject Investigators & Co-Investigators









Project Staff

















The 11 identified start-up clusters of beneficiaries comprising of 1 Central Hub and 10 peripherals/spokes from Umsning Block, Ri Bhoi District, Meghalaya would be supplied with the following facilities for production of Dendrobium cut-flowers:

Sl.N	Facilities/Items	Central Hub	Spokes-10 Units
0.			(Each/Total)
1	Polyhouse	1000m ²	300/3000 m ²
2	Working shed	500 m^2	200/2000 m ²
3	Store Room	500 m^2	200/2000 m ²
4	Grading and Packaging Room	500 m^2	200/2000 m ²
5	Cold Storage Unit	500 m ²	200/2000 m ²
6	Dendrobium quality plants	12000 nos/annum	3600/36000 nos/annum
Total area		3000 m ²	1100/11,000 m ²

Portfolio

100 women entrepreneurs have been enrolled and capacity building programs are conducted regularly.









IBSD, Upper Shillong

i. Orchidarium

ii. R & D Facilities with Central Instrumentation Facility

iii. (CIF) for Molecular Biology, Microbiology and Analytical Techniques

BRDC, Upper Shillong

i. Tissue Culture laboratory

ii. Bioinoculant lab

iii. Mist chamber

iv. 2 nos of experimental farms at Upper Shillong

www.ibsd.gov.in www.megbrdc.nic.in



IIT Guwahati BioNEST Bioincubator

Guwahati, Assam

Focus area

Healthcare, Biomaterials, Industrial Biotechnology, Diagnostics

USP

Healthcare Bio-Entrepreneurship Ecosystem Encompassing Biomaterials, Industrial Biotechnology and Diagnostics at IIT Guwahati in collaboration with C-CAMP. Possibility of the usage of the state-of-art research facilities with the graduation to IIT Guwahati Research Park upon successful incubation.

About

BioNEST IIT Guwahati targets to attempt the next level of disruptive translational innovations in the areas of Biomaterials, Industrial Biotech., and Diagnostics. . IIT Guwahati has a strong room of disruptive innovations, which is capable of transforming the healthcare delivery, its quality and cost. This is possible by, deeper understanding of biology of common diseases in the context of our society/country, linking influence of environment, diet, practices to genetic composition of our population, analysing the data through Deep-Learning, Artificial Intelligence, and Machine-Learning tools, and translate the ideas/concepts to prototype before validating them to the level of commercialized products. . In addition to this, in the BioNEST initiative, IIT Guwahati have also partnered with Centre for Cellular and Molecular Platforms (C-CAMP) who has been actively involved in the area of Life Science Entrepreneurship for over past 8 years. Setting up the proposed BioNEST for bio-entrepreneurship at CFN-IITG is envisioned to build an entrepreneurship ecosystem in NE India.

Leadership



Prof Dipankar Bandyopadhyay
Prof, Department of Chemical Engineering
& Head, Centre for Nanotechnology



Prof Siddhartha Sankar Ghosh Prof, Department of Biosciences & Bioengineering, Centre for Nanotechnology



Prof Biman Behari Mandal
Prof, Department of Biosciences & Bioengineering,
Centre for Nanotechnology



Dr Taslimarif Saiyed
CEO and Director, Centre for
Cellular and Molecular Platforms



The BioNEST inculcates a 360-degree translation under the umbrella of IITG starting from Idea generation, Proof-of-concept demonstration, Prototyping, Clearances, Validations, Certifications until Commercialization. IITG has state-of-art fabrication, characterization, and testing facilities to foster nano/bio innovations in the fields of Biomaterials, Industrial Biotech., and Diagnostics, which is accessible to the Biotech start-ups to attempt and develop state-of-art technologies. Leading doctors/ scientists/ engineers/ entrepreneurs are made available to the Biotech start-ups for trouble shooting and fast-track solutions. The incubates also have access to Technical advices from leading IITG faculty. IITG further helps the entrepreneurs in protecting the IPRs for the budding translational innovators.





www.iitg.ac.in



NEHU BioNEST Bioincubator

Tura Campus, Meghalaya

Focus area

Agri-Food Biotechnology and Dairy Technology utilizing natural indigenous resources of North-Eastern region

USP

The North Eastern Region is one of the global biodiversity hotspots and home to many ethnic groups with a rich traditional knowledge of the endemic bioresources. It aims at translation of traditional knowledges from different ethnic groups in the neighbourhood into sustainable entrepreneurship development.

About

The North Eastern Region is one of the global biodiversity hotspots and home to many ethnic groups with a rich traditional knowledge of the endemic bioresources. The BioNEST Bio-incubator at North-Eastern Hill University (NEHU), Tura campus is the one stop ecosystem for promoting and nurturing innovations and building enterprises in the field of Agriculture and Food technology and Dairy technology, particularly for North-Eastern India.

The enormous infrastructure of forty-four R&D departments and strong faculties with experience in translational research is the biggest strength of the centre. Further the existing Food Processing facilities, sophisticated analytical instrumental facilities, high-end computational facilities, IPR expertise, established pipeline of incubatees and strong academic-industry-investor linkups are the pillars of the Bio-incubator.

Leadership



Prof G. Singaiah
Director BioNEST Bioincubator and
Pro-Vice Chancellor, NEHU, Tura



Dr B. K. Mishra
Project Investigator (Nodal Officer),
BioNEST Bioincubator and
Assit Prof Senior Scale, Department of Rura
Development & Agricultural Production
(RDAP), NEHU, Tura Campus

The rationale of incubation is to provide services and facilities that add value to selected firms at affordable costs, in order to help them survive and grow. The BioNEST Bio-incubator facility at NEHU, Tura campus offers physical co-working space for start-up and entrepreneurs. In addition, the budding startups gain access to Bio-Incubator facilities and analytical equipment, pre-incubation training, administrative and legal services for business development, market research, and technology assessment services. The Bio-incubator will also assist in creating industry linkages and networking, training and business coaching, technology transfer, IP portfolio management, quality assurance services, and acquisition of seed funding.

Portfolio

- AGRO BASEDDevelopment of low cost process technology for extraction of oleoresin, essential oils and its value added products from Tejpatta.
- ETHNOBOTANYCharacterization o high value phytochemicals of anti-diabetic and immunomodulatory properties in North Eastern Banana Varieties.
- AGRO BASEDValue addition of banana (Musa sp.) and creating small scale enterprises of Meghalaya tribal community though minimal processing technology.
- AGRO WASTE MANAGEMENT:
 Utilization of novel biotechnological tools using agro-waste products for livelihood improvement of farmers of Meghalaya India.
- ETHNOBOTANYExtraction and characterisation of functional phytochemicals from khoonphal (Haematocarpusvalidus) of Meghalaya and its value addition.
- FERMENTED BEVERAGBevelopment of Technology for the preparation of fermented rice beverage in Meghalaya and evaluation of its functional properties.









www.nehu.ac.in



CSIR-NEIST BioNEST Bioincubator

Jorhat, Assam

Focus area

Agrobiotechnology, Natural Products, Food Technology and Industrial Biotechnology

USP

CSIR-NEIST is an institute of education, training and research with a strong focus on capacity building. The focus is to build strong foundation for promotion of innovative start-ups to move their business forward.

About

With a mission to stimulate the establishment and growth of biotechnology based start-up companies and to translate their research findings and ideas into viable commercial entities. CSIR-North East Institute of Science & Technology, Jorhat Bioincubator provides a healthy and scientific environment for young entrepreneurs. CSIR-NEIST is an institute of education, training and research with a strong focus on capacity building. The aim of the CSIR-NEIST Bioincubator is to support and nurture the innovators and to provide all the facilities required to support them to move on a fast track to success.

Leadership



Dr G. Narahari Sastry
Director
CSIR-NEIST Jorhat



Dr Siddhartha P Saikia Principal Scientist & Head, Agrotechnology & Rural Development Division and CEO, CSIR-NEIST



Dr RK Rawal



Dr P Manna



Dr JL Hati Boruah



Dr R Konwar

CSIR-NEIST Bioincubator provides globally competitive and superior incubation services to young start-ups and innovators and helps them become a successful enterprise. The bioincubator provides shared wet lab work stations; has independent lab cubicles for innovators who need bigger lab and office spaces. It also independent business suites available at a very affordable cost. The bioincubator will be able to accommodate around 25-30 start-ups in its facility, which will be very useful for all the start-ups for implementing their innovative ideas. The CSIR-NEIST Bioincubator facility is operated and managed by skilled professionals with rich experience.

Portfolio

BIG-NE Grantee



Dr. Prachujya Dutta



Ms. Melinda Nongbet Sohlang









www.neist.res.in



ILS BioNEST Bioincubator

Bhubaneswar, Odisha

Focus area

Food and Nutrition, Devices, Diagnostics & Therapeutics, Health & Nutrition, Value addition and Secondary agriculture, Wellness and Healthcare products, Indigenized Biotechnology & Pharmaceutical products

USF

ILS Bioincubator provide unparalleled opportunities for the success growing startup by technical expertise, high end infrastructure and biotech facility at a subsided rate. Our goal is to offer support for life science entrepreneurs and facilitate the development of novel technologies and products.

About

DBT-ILS Bioincubator is user-centred, open-innovation ecosystem aims to nurturing early stage innovations and developing them into technologies and products. The goal is to offer support for life science entrepreneurs and young biotech companies through all stages of early company development, turning promising new ideas into fully formed biotech companies. The ILS bioincubator has 10,000sq ft of dedicated facility with all modern amenities and infrastructure. It promotes exchange of ideas among the entrepreneurs and provides the enabling mechanism for the entrepreneurs to excel in their field. These include scientific & technical support, access to biotech infrastructure, knowledge services – legal and business, networking and partnership. The ILS Bioincubator has a central facility with all advanced equipment and infrastructure. With the availability of competent resource persons and technical experts at ILS, it supports innovation and excellence.

Leadership



Dr Ajay Parida Director, ILS



Dr Nivedita Jena COO, ILS BioNEST



Itishree Jena Admin Executive



Monalisha Dash



Sandeep Ota Tech lead



Shivani Sarat BD Excecutive

Dedicated laboratory space for wetlab experiments with necessary equipment and facility, including a well-established cell culture facility and a central facility will all advanced equipment and infrastructure. Facility includes BSL III facility, Proteomics facility, Bioinformatics facility, animal house facility, next gen sequencing facility, green house, Zebra fish facility and tissue culture facility based on the need and relevance, ILS bioincubator will have flexibility and operational facilitation for promoting innovation.

Portfolio























Showcasing Potential Journey and Impact of Biotechnology on the society

www.enerbiocluster.com