



II JAI SRI GURUDEV II
BGSKH Education Trust (R.) - A unit of Sri Adichunchanagiri Shikshana Trust (R.)
BGS College of Engineering and Technology
(BGSCET)

Approved by AICTE, New Delhi & Affiliated to Visvesvaraya Technological University, Belagavi

Ref. No.: BGSCET/GEN/117/2025-26

Date: 09/07/2025

To,
The Registrar
Visvesvaraya Technological University (VTU)
"Jnana Sangama"
Belagavi - 590018
Karnataka, India

Subject: Request for Approval of VTU Research Centre at BGS College of Engineering & Technology (BGSCET)

Respected Sir/Madam,

Greetings from **BGS College of Engineering & Technology (BGSCET)**.

We are pleased to submit our formal request for the **approval of a Research Centre under VTU** at our institution. Over the years, BGSCET has nurtured a strong academic and research culture, and we are now keen to formalize this through an officially recognized Research Centre to further facilitate innovation, industry collaboration, and research excellence.

Our institution fulfils and exceeds the required criteria, as highlighted below:

- **VTU Recognized Ph.D. Supervisors:** BGSCET has 17 Doctorates, over 40% of faculty members are VTU-recognized Ph.D. guides actively engaged in supervising research scholars in various engineering and allied domains. (Refer Annexure I)
- **Research Scholar Engagement:** Several research scholars are currently being mentored by our faculty, though they are registered at other VTU-recognized research centres. (Refer Annexure II)
- **High Demand for Research Guidance:** A large number of students have approached our qualified guides for Ph.D. supervision. However, due to the lack of an approved R&D Centre at BGSCET, they were directed to register at other VTU-recognized institutions. (Refer Annexure III)
- **Well-established Incubation Centre:** Our campus hosts a fully functional incubation and innovation centre that supports entrepreneurship, research-based development, and start up initiatives. (Refer Annexure IV)
- **Strong Industry Collaborations:** BGSCET has signed MoUs and built active partnerships with multiple industries, resulting in applied research, joint projects, and consultancy work. (Refer Annexure V)
- **Multiple Centres of Excellence (COEs):** The college has established a good number of Centres of Excellence in collaboration with industry and academic bodies, providing opportunities for advanced hands-on learning, research, and technology development. (Refer Annexure VI)
- **High-quality Publications, Patents and Citations:** Our faculty members have published extensively in reputed journals with good citation counts, H-index values, and contributions to



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- the global research community and good number of patents submitted and some of them granted. (Refer Annexure VII)
- **Robust Research Infrastructure:** BGSCET is equipped with advanced laboratories, over 500 computers with the latest specifications, research tools, 1000 Mbps high-speed internet, robust computational resources, and access to digital libraries—providing essential infrastructure for R&D activities
- **Supportive Academic Ecosystem:** We conduct regular postgraduate programs, faculty development programs, national and international seminars, and workshops that nurture a research-driven environment. (Refer Annexure VIII)
- **BGSCET-Research Foundation (Management Commitment)** In pursuit of academic excellence and fostering a culture of innovation, BGSCET establishes the Research Foundation as a vital institutional body. The research council dedicated to steering the college towards new frontiers of technological advancement. Faculty members at BGSCET are encouraged to pursue full time Research at Institute of Eminence with stipend as per norms (Refer Annexure IX).
- **BGSCET-IRC (Innovation & Research Cell)** has been established to promote full-time Ph.D. research by offering a monthly stipend of ₹40,000 for a duration of 3.5 years under this scheme.

Given the above strengths, we believe that granting BGSCET the status of a **VTU-recognized Research Centre** will empower our institution to support more Ph.D. aspirants, strengthen our collaborations with industry, and contribute meaningfully to the academic and research goals of VTU.

We respectfully request the University to consider our application and grant the **R&D Centre approval** at the earliest.

Thank you for your kind consideration.

Principal
BGSCET

Principal

BGS College of Engineering & Technology
Mahalakshmpuram, Bengaluru - 560086

Director
BGSCET

Director

BGS College of Engineering & Technology
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The following are the members of Research and Development Cell (R&D) of BGSCET from the academic year 2024-25

R&D Cell members

SL No	Names	Designation & Dept	Position	Role
1	Dr. G T Raju	Director	Chairman	Oversee the Committee's activities, ensure that the committee meets its objectives and goals. Responsible for Planning and scheduling committee meetings, creating an agenda and ensuring that each committee member attends every meeting and contributes to the Cell's overall success
2	Dr. RaviKumar G K	Principal	Representative of Chairman	
3	Dr. Jalaja G	Professor-AI&ML	Member	Mentoring BGSCET Faculty members for IT Research
4	Dr. Manjula L	Asst Prof-AI&ML	Member Secretary	Monitoring and Co ordinating entire research process of BGSCET.
5	Dr. Vinay Kumar	Assoc Prof-Chemistry	Member	Mentoring and Coordinating Research for Basic Science Faculty members
6	Dr. Nitin S	Asst Prof-Mech	Member	Identifying Funded Projects from various agencies and notifying to faculty members.
7	Dr. Parvathi C	Prof-AI&DS	Member Convener	Arranging Research Cell Meetings, Creating data base and research related document preparation.

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ANNEXURE I VTU Recognized Ph.D. Supervisors

SI No	Name of the Guide	Designation	Department
1	Dr. Ravikumar G K	Principal	CSE
2	Dr. Manjula G	Professor & HOD	CSE
3	Dr. Jalaja G	Professor & HOD	AI & ML
4	Dr. Madhu Patil	Professor & HOD	CSD
5	Dr. Chaitra Naveen	Professor & HOD	ISE
6	Dr. Parvathy C	Professor & HOD	AI & DS
7	Dr. Madhura Gangaiah	Professor	AI & ML
8	Dr. Deepthy D	Assoc. Prof & HOD	Mathematics
9	Dr. Vinay Kumar B	Assoc. Prof & HOD	Chemistry
10	Dr. Ambika A V	Asst. Prof & HOD	Physics
11	Dr. Neetha Shukla	Asst. Prof	Physics
12	Dr. Nithin H S	Assoc. Prof	M.E
13	Dr. Channa Keshava Naik N	Asst. Prof	M.E
14	Dr. Manjula L	Assoc. Prof	AI & ML
15	Dr. Sangeetha	Asst. Prof	Chemistry
16	Dr. Chandrakala H L	Assoc. Prof	CSD
17	Dr Chandini	Asst Prof	AI & DS



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ANNEXURE II Research Scholar Engagement

SI No	Name of the Guide	Designation	No.of Research Scholars awarded P.hD	No of Research Scholars Pursuing
1	Dr. Ravikumar G K	Principal	20	3
2	Dr. Vinay Kumar B	Assoc. Prof & HOD	1	2
3	Dr. Madhura Gangaiah	Professor	--	1
4	Dr. Manjula G	Professor & HOD	--	--
5	Dr. Jalaja G	Professor & HOD	--	--
6	Dr. Madhu Patil	Professor & HOD	--	--
7	Dr. Chaitra Naveen	Professor & HOD	--	--
8	Dr. Deepthy D	Assoc. Prof & HOD	--	1

ANNEXURE III High Demand for Research Guidance

SI No	Name of the Guide	Designation	No of Research Scholars awarded Ph.D	No of Research Scholars Pursuing	No of research scholars Approached and diverted due to non-availability of Research Centre
1	Dr. Ravikumar G K	Principal	20	3	4
2	Dr. Vinay Kumar B	Assoc. Prof & HOD	1	2	--
3	Dr. Madhura Gangaiah	Professor	--	1	2
4	Dr. Manjula G	Professor & HOD	--	--	4
5	Dr. Jalaja G	Professor & HOD	--	--	2
6	Dr. Madhu Patil	Professor & HOD	--	--	4
7	Dr. Chaitra Naveen	Professor & HOD	--	--	4
8	Dr. Deepthy D	Assoc. Prof & HOD	--	1	2



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ANNEXURE IV Well-established Incubation Centre

Proposal to Implement Anvesana Framework within BGS Entrepreneurship Labs (BEL) in association with Anvesana.

Proposed Framework for Collaboration

We propose to bring the following Anvesana modules into BEL, contextualized to our campus environment:

1. **Yuva Shristi (Explore + Discover)**
 - Orientation programs and sessions introducing entrepreneurship
 - Technology and innovation workshops led by industry experts
 - Guest talks by founders and venture capitalists to inspire early curiosity
2. **Diksuchi (Act)**
 - Guided ideation bootcamps and innovation challenges
 - Mentoring support for market research and early validation
 - Encouraging cross-disciplinary student teams to build POCs
3. **Vridhi (Build)**
 - Incubation infrastructure and co-working spaces within BEL
 - Mentorship access from Anvesana and BGSCET faculty
 - Assistance with grant applications, investor connects, and product-market fit
4. **Vega (Rise)**
 - Joint demo days and investor showcase events
 - Business model refinement and legal/IP advisory
 - Support for startups ready to scale beyond MVP



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ANNEXURE V Strong Industry Collaborations

SL no	Date	MoU Signed
1	10/02/2025	Magic Bus India Foundations (Magic Bus)
2	04/02/2025	Diya Edulabs Pvt Ltd
3	03/03/2025	MEVI Technologies LLP
4	30/01/2025	Cloud Institutions
5	26/12/2024	VTU, BELGAVI
6	18/12/2024	M/S Accurate info solution
7	11/11/2024	Fynamics Training Solution Pvt Ltd
8	07/10/2024	BIZOTIC EDTECH PVT LTD
9	05/10/2024	Manya – The Princeton Review
10	20/08/2024	10 Seconds – Science of Success
11	22/04/2024	Tech Fortune Technologies Bangalore
12	02/02/2024	CyberDipomat Tech Pvt Ltd
13	02/01/2024	Giga Skill Technologies Pvt.Ltd
14	26/12/2023	Neuriq Private Limited
15	04/12/2023	BIZOTIC EDTECH PVT LTD
16	20/10/2023	Aivolved Technologies Pvt Ltd
17	04/09/2023	Scontinent Technologies Pvt Ltd
18	01/04/2023	Automation Anywhere Academic Alliance Program
19	12/12/2024	iBridge360 Edtech Pvt Ltd
20	29/03/2023	Karnataka State Council for Science And Technology
21	16/01/2023	BIZOTIC EDTECH PVT LTD
22	21/03/2023	10 Seconds – Science of Success
23	31/03/2023	Durga India
24	14/2/2025	Aapta Salaha Kendra

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List of Projects Submitted and Sanctioned from Various Funding Agencies

Funding Agency	Title	Investigators	Amount
VGST-GRE Approved and Sanctioned	Interlamellar layer formation at the ceramic-metallic interface using microwave-fusing technology: A Novel approach to develop metallurgical bonding for TBCs.	PI: Dr. Nithin H S Co-PI: Dr. Channakeshava Naik N (Approved and Sanctioned)	40 lakhs
DST: SURE	IOT Powered Automated Route Planning and Battery Optimization for Electric Fleets	PI: Dr. Prasad Naik Co-PI: Dr. Ravikumar Dr. Pranjala Tiwari Dr. Channa Keshava Naik	30.5 lakhs
NRDC Techno commercial Scheme	Scaling Commercial Deployment of Pebble Absorber Solar Thermal Collectors beyond lab	PI: Dr. Channa Keshava Naik Co-PI: Dr. Prasad Naik Dr. Ravikumar Dr. Pranjala Tiwari	5 lakhs
Karnataka State Higher Education Council	ERCICA conference Funding	Dr. Prasad Naik Dr. Ravikumar	1 lakh
VGST-GRE	Comparative studies of Pebble Absorber Solar Thermal Collector with Conventional Absorber Solar Thermal Collector	Dr. Channa Keshava Naik Dr. Nithin H S	30 lakhs
VGST-FDP	Interface of Intellectual property in entrepreneurship development, innovation, incubation and academia	Dr. Channa Keshava Naik	03 lakhs
IKS Division-AICTE	A green chemistry approach for synthesizing metal oxides nanoparticles employing transition metal base schiff base as precursor	Dr. Vinay Kumar	18.6 lakhs
VTU CRC CRC project (Collaborative Research Culture) Funding Agency: VTU, Belagavi	Development and Characterization of an Innovative Battery Thermal Management System for Electric Vehicle"	Co PI: Dr. Channa Keshava Naik (Approved and Sanctioned)	24 Lakhs


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ANNEXURE VI Multiple Centres of Excellence COE

1. Start Up lab by Technodysis

- As a pioneer in RPA Automation, Technodysis is one of the India 's growing Information and communications Technology companies.
- 20+ students from BGSCET are pursuing Internship at COE of Technodysis.

2. Start Up lab by Exaleap Semiconductors

- Exaleap semiconductors focuses on Industrial IoT, security and other industry sectors offering full stack foundational intelligent software services ranging from operating systems to cloud platforms.
- Students at BGSCET are developing innovative applications by integrating cutting edge technologies such as AI, industrial IoT and block chain Technology

3. Cisco Center of Excellence

- Global Certifications: Students can earn industry-recognized credentials like CCNA, CyberOps Associate, and IoT certifications.
- Skill Development: Hands-on training in networking, cybersecurity, IoT, and cloud using Cisco labs and tools like Packet Tracer
- Career Opportunities: Access to Cisco's Talent Bridge platform for internships, job placements, and exposure to Cisco's partner network.
- Institutional Recognition: The college becomes a certified Cisco Networking Academy, boosting its reputation and academic offerings.
- Access to Resources: Availability of rich teaching materials, virtual labs, industry updates, and opportunities to host events or workshops.

ANNEXURE VII: High-quality Publications, Patents and Citations

Sl No	Name of the Institute	International Journals	Conference Publications	Patents	Book Chapters	Books
1	BGSCET	50	32	35	8	2

ANNEXURE VIII : Supportive Academic Ecosystem

Sl. No	Name of the Institute	Faculty Development Program (FDP)	Student Development Program (SDP)	Workshop	Seminars
1	BGSCET	14	30	25	40


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ANNEXURE IX : Management Commitment

Management Investment in R&D and Innovation Infrastructure at BGSCET

The management has already invested Rs. 4 Crores in establishing laboratories and Centers of Excellence (CoEs) in collaboration with leading industry technology partners:

- Technodysis
- Exaleap semiconductor
- Cisco

These facilities are equipped with the latest configurations, supporting high-end technical research and development activities.

Additionally, an incubation center has been set up, covering 300 sq. meters of dedicated space. This initiative includes:

- Over 500 high-end systems to support innovation and entrepreneurship with internet speed of 1000mbps
- A world-class library with access to a wide range of national and international journals.
- Membership to the VTU Consortium, ensuring access to premier research publications.

This comprehensive infrastructure aims to promote Research and Development (R&D), innovation, and skill development among students and faculty at BGSCET.

The management has committed to earmark nearly Rs. 1 Crore every year as a seeding fund to promote R&D activities. This initiative will significantly enhance research and innovation efforts at BGSCET.


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