



**BHADALE GROUP OF COMPANIES
- IT AND REAL ESTATE**



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Technology Ecosystem for Research Catalogue

Bhadale IT Pvt. Ltd (registration due)

Canada & India

Mobile: +91- 9741040195 | Website: <https://vijaymohire.wixsite.com/bhadaleit>

Bhadale Group of Companies

Bhadale Group of Companies consists of Bhadale IT Developers Pvt. Ltd and Bhadale Real Estate Developers Pvt Ltd.

1. **Bhadale IT Developers Pvt. Ltd** is an IT and Computer Engineering company

This company provides consultation in areas of cutting edge technologies, research outsourcing, and software consultation related to data center and related engineering practices

2. **Bhadale Real Estate Developers Pvt. Ltd** is a Real estate company

This company provides development of Infrastructure for IT Datacenter and allied sectors. It manages the engineering design, landscaping, civil architecture, presently serving internal projects.

Bhadale Group of Companies has aggressive programs in place to serve the niche market.

Bhadale IT Developers Pvt. Ltd Programs and Services**IT Division programs**

- 1 Cloud Architecture
- 2 AI
- 3 Digital
- 4 Automation
- 5 R&D services
- 6 Engineering services
- 7 Mentoring Services
- 8 Data center services
- 9 Outsourcing

There are various services offered under each program, details are described below

IT Division program related services**Cloud Architecture**

- Cloud Enterprise Architecture
- Cloud Business Architecture
- Cloud Information / Website data Architecture
- Cloud Solution Architecture
- Data center Virtualization and Cloud services (IaaS)
- Cloud Technical Architecture – Project specific
- Cloud ERP Solutions (SaaS, PaaS)
- Cloud Strategy and Transformation
- Cloud Systems Integration and consolidation
- Cloud Project Management
- Cloud Pre sales support
- Business Needs (RFI/RFQ/RFP assistance)
- Cloud Quality Initiatives

- Cloud Business Analysis
- Cloud Infrastructure Planning – hardware , network, storage , backup (IaaS, PaaS)
- Cloud business portfolio assessment services (workshops)

AI

- Artificial intelligence and advanced machine learning
- Intelligent applications, Intelligent things
- Conversational systems
- Mesh app and service architecture
- Adaptive security architecture

Digital

- Virtual reality and augmented reality: Brief capability, deliverables and service offering
- Digital twins
- Blockchains and distributed ledgers
- Digital technology platforms

Automation

- Robotic Process Automation
- IoT
- Manufacturing robots
- BPO call center robots
- Chatbots
- Remote workers
- Hazardous jobs robots(Mine bombs, nuclear waste, underwater, space etc)

R&D services

- PHD mentor, buddy
- BPO - Outsourced work in areas of research areas related to IT and Computer Engineering

Engineering services (Only Engg)

- Engineering services for Data centers
- Engineering services for IT Departments
- Engineering architectures, drawings, road ways, town house planning, parking, safety, outdoor maintenance, lighting etc
- All other aspects of engineering: Civil, electrical, water and sewage, safety and mechanical motors, pumps, refrigeration, cooling

Mentoring Services

- IT Mentoring
- Engineering Mentoring
- Business Mentoring
- Mentoring for special categories based on age, and disabled
- Mentoring for special professionals like Military and Govt officials under Govt Programs

Data center services (Engg + IT)

- Data center Engineering services
- Data Center IT Services
- Data center Security services
- Data Center QA services
- Datacenter Cloud services
- Datacenter compliances services
- Data center based business solutions

Outsourcing

- Insourcing
- Outsourcing
- Near sourcing
- Cloud sourcing
- BPO services
- IT specific services
- Engineering specific services
- Training specific services

Our Technology Ecosystem for Research



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We have a large set of tools and solutions; few are mentioned below with details tabulated

Domain	Our Product offer	Our Products ecosystem/ features
AGRICULTURE SECTOR	<ol style="list-style-type: none"> 1. AI based Lidar systems 2. GIS-AI based remote services 3. AI based soil morphology, & minerals composition analysis 4. Flora & fauna, topography mapping & analysis 5. Urban hotspots analysis 6. Flood analysis, soil chemistry based water logging effects 7. Sustainability for agriculture and living 8. Intelligent tracking of locusts, & birds 9. AI based predictions, drone maps 	<p><i>Intelligent Detection and Ranging</i> https://www.aeye.ai/idar/</p> <p>The RedTail <i>LiDAR Systems'</i> RTL-400 is a lightweight cost-effective tool, has drone-based <i>LiDAR</i> technology to support precision <i>agriculture</i> https://blog.lidarnews.com/precision-agriculture-informed-drone-lidar/</p>
AI SECTOR	<ol style="list-style-type: none"> 10. Bio-inspired systems 11. Cognitive systems 	<p>https://nnabla.org/ https://github.com/norse/norse https://pypi.org/project/bindsnet/</p> <p>https://www.ibm.com/thought-leadership/institute-business-value/report/build-cognitive-enterprise https://blogs.oracle.com/profit/the-cognitive-enterprise-powered-by-ibm-and-oracle https://www.xenonstack.com/insights/what-is-cognitive-analytics/</p>

		https://builders.intel.com/ai/solutionslibrary/redefining-cognitive-automation-for-future-ready-enterprise-it#.X-wl-1hS_IU https://www.automationanywhere.com/company/blog/product-insights/what-is-cognitive-automation-a-primer
B2B, B2C service providers SECTOR	12. Sterile rooms, equipments, co-working areas 13. Infection warning systems, and incident management 14. Paperless transactions, virtual meetings, virtual funds 15. ERP, CRM systems revamp to newer work styles 16. Work from anywhere, Future of Work concepts 17. Industry specific SOPs, like Veg. vending , UV based systems	Business transformation to meet the wide and diverse supply chain to avoid wastage, delays, priority driven: ToDo
Data center-Computing	18. Computational Engineering 19. Mini - Hybrid cloud , nanoservers 20. Nano networks -using nanomaterials 21. Low energy consumption devices, auto off when not active	Emerging datacenter concepts with 5G, PAN, Always ON, Recommender system, Personal and office management desktops: ToDo
Defense	22. High altitude soldier gear, navigation and path finder 23. High altitude logistics for carrying heavy equipments 24. Long storage power supply 25. Low power devices using nano materials 26. Exoskeletons for heavy jobs 27. Food preservation and oxygen generation from ambient air	Innovations management tools for defense: ToDo
Energy	28. Hybrid energy system interfaces and massive storage systems	Emerging trends in miniature power systems, Low energy devices, remote charging: ToDo

	29. Micro-batteries charged by everything from buildings to our bodies	
Engineering	30. Smart Nano-materials and Nano-composites 31. Smart nano-computing 32. Smart AI and nano modeling 33. Wireless Nanosensor Networks (WNSN) using Internet of Nanothings (IoNT)	Engineering research tools: ToDo
Government	34. Digital Govt 1 , 2 35. Weather management	Research grants/ innovations for the Federal/Provincial Governments and agencies : ToDo
Clean Tech sector	36. Smart Nano-particles for water / air purification 37. Smart AI and nano modeling 38. Smart nanorobots for river water cleaning 39. Smart nanorobots for industrial waste cleaning	Nanorobots for external use: https://waste-management-world.com/a/nanoscopic-robot-recyclers-the-future-of-waste-management https://www.sciencealert.com/graphene-based-nanobots-could-clean-up-the-metal-from-our-oceans
Healthcare / LIFESCIENCE	40. Gene therapy 41. Telemedicine 42. Smart Drug Delivery 43. Smart Diagnosis 44. Smart Nanocoatings 45. Smart anti-microbial technologies 46. Smart Medical batteries	https://evisit.com/resources/telemedicine-telehealth-equipment/ https://www.capterra.com/telemedicine-software/ CBS Health , from Cambridge Brain Sciences, is a secure and powerful cognitive assessment platform built for healthcare practitioners. Described as a “virtual hospital,” iCliniq facilitates online chats between patients and doctors for second opinions, medical advice, or preliminary diagnoses. Nanotechnology for external use: ToDo
Hospitality	47. Covid-19 care systems for prevention, incident mgmt 48. Sterile rooms, sterile kitchen, eating wares 49. Covid-19 diet for client under quarantine	ToDo
HR	50. AI assisted analysis of job fitment and real staff merits against open pool resource 51. Big data for timely talent search from open pool	https://www.skeeled.com/ats https://ideal.com/top-recruiting-software/ https://www.selectsoftwarereviews.com/buyer-guide/ai-recruiting

Manufacturing	52. Additive manufacturing 53. Nano material based manufacturing	https://www.lboro.ac.uk/research/amrg/about/the7categoriesofadditive manufacturing/ https://apiumtec.com/en/using-additive-manufacturing-as-research-and-development-tool https://journals.sagepub.com/doi/full/10.1177/1687814018822880
Telecom	54. IONT	https://www.greyb.com/companies-working-on-5g-technology/
Transport	55. Vehicle predictive maintenance 56. AI based Flight safety 57. Railway safety & predictive management 58. Naval safety and intelligent navigation	https://www.ce.washington.edu/research/areas/transportation
BANKING	59. Distributed ledger, block chain systems 60. Staff-less banking , Adv fraud detections	https://www.hyperledger.org/learn/research-topics https://www.blockchainresearchinstitute.org/ https://www.blockchainresearchinstitute.org/blockchain-revolution-for-the-enterprise/
B2B, B2C management	61. Sterile rooms, equipments, co-working areas 62. Infection warning systems, and incident management 63. Paperless transactions, virtual meetings, virtual funds 64. ERP, CRM systems revamp to newer work styles 65. Work from anywhere, Future of Work concepts 66. Industry specific SOPs , like Veg. vending , UV based systems	ToDo
Environment sector	67. Developing tools and methods to understand the coupling among biological, chemical, and physical processes 68. Formulating diagnostic and predictive models 69. Devising innovative technologies for environmental and public health protection 70. Discovering strategies to reduce the human	ToDo

	footprint on ecological systems 71. Aquatic Toxicology 72. Computational Epidemiology and Response Analysis (CeCERA) systems 73. Wildlife Conservation	
Future of work	74. Work From Anywhere (WFA) 75. New Gears, furniture, virtual apps, virtual meetings etc	ToDo
Geology sector	76. Integrated Advanced warning system to avoid disasters 77. Under sea and space project works in areas of exploratory mining 78. IOT based GIS and remote sensor network	https://www.nasa.gov/press-release/nasa-invests-in-tech-concepts-aimed-at-exploring-lunar-craters-mining-asteroids
Infosec sector	79. AI based adaptive security systems 80. Cognitive security systems	https://www.ibm.com/watson/advantage-reports/cognitive-business-lessons/security.html
NanoTech sector	81. Nanostructures 82. Nanosciences 83. Nanotechnology 84. Material Science 85. Applications 86. Regulation and normalization	Nanotool provided by a Massively Parallel Nano-Electro Mechanical System (MP NEMS) chip
Oil & Gas sector	87. Bio-inspired algorithms for works like drilling	
Power supply sector	88. Intelligent power supply for home, B2B, factories	Low-Power <i>Intelligent Switching Power Supply</i> , POWER SUPPLY SYSTEMS FOR THE IoE, Self-powered microsystems based on human kinetic energy harvesting and environmental mechanical energy harvesting https://eepower.com/technical-articles/intelligent-power-modules-ipms-concepts-features-and-applications/ https://onlinelibrary.wiley.com/doi/full/10.1002/inf2.12016
Quantum Technology sector	89. Smart Quantum Computing 90. Smart Quantum Cryptography 91. Smart Quantum Block chain	ToDo

	92.Smart Quantum Big data 93.Smart Quantum resistant security	
Smart clothing sector	94. Patchable wear 95. Flexible electro-optical sensor, mini boards 96.Washable gadgets 97.Low power hi-contrast optoelectronics, bio-bulbs 98.Nano processor based on cloth computing 99.IoT based smart wears for various jobs 100. DIY, ready to use wearable with min configuration 101.Beecham taxonomy based systems	ToDo
Social sector	102. Smart Society 103. Smart Solution Cafe 104.Smart Living 105.Smart Social Credit Score system 106.Smart Elections	ToDo
Space sector	107. Space travel safety systems 108. Space travel living systems 109. Energy recycling, space energy 110. Homing guidance, stellar navigation system	https://scienceandtechnology.jpl.nasa.gov/research/research-topics-list https://scienceandtechnology.jpl.nasa.gov/opportunities
Sports sector	111. Computational Intelligence algorithms based trainings	ToDo

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For more details, contact below:

Contact

Bhadale IT Pvt. Ltd

CTO: Vijay Mohire, 9741040195; Email: vijaymohire@gmail.com