



www.batoi.com/research



We work in different areas of **advanced computing** with applications for better business and a sustainable world.



Some of the top engineering, management, and technology experts constitute the **Batoi Research Group (BRG)**



Introduction to Batoi Research

We work in different areas of advanced computing with applications for better business and a sustainable world. Some top engineering, management, and technology experts constitute the **Batoi Research Group (BRG)**.



Cloud Computing and Software Architecture



Blockchain and Distributed Ledger Technologies



Artificial Intelligence and Machine Learning



Internet of Things (IoT) and Edge Computing



Quantum Computing



Open Source Initiative (OSI)

This program envisages automating software processes and enhancing software architectures and security.



Special Group Projects (SGP)


We take up research projects on advanced computing in partnership with leading academic institutions.





Skills in Tech (SIT)


We work with leading institutions to align new or frontier digital technologies into skill programs.


Key Research Projects


 Privacy and Security Compliance

 DevEx (Developer Experience)

 Micro frontends


 Data Interoperability and Migrations


 AR/VR Integration and Automation


 Documentation

 IoT Layer


 Cryptography


 Dependency and Vulnerabilities


 dApp Development Automation and Security


 Architecture and Language Performance


 AI Layer


 Third-Party PHP Libraries


 IAM (Authentication, Authorization, MFA, SSO, RBAC)

 Analytics and Visualization


 Version Management, Backup, and Restore of RAD Application


 Project Management, Efficiency, and Solution Best Practices


 Microservice Security and Integration


 Deployment Automation

 Third-Party Client Libraries

 Disconnected Operation

 Adoption and Tech Stack Interoperability

 Sustainable Computing

 Language and Database Development

 Telemetry

Leadership (Batoi Research Group)



Director and CEO
Ashwini Kumar Rath

An entrepreneur, author and DevSecOps consultant, Ashwini Kumar Rath is the Director and CEO at Batoi and is actively involved in strategic affairs and product development.



Director, Research
Dr. Sanjay Mohapatra

An expert in the areas of Information Systems, IT Strategy, E-Commerce Strategy, Innovation, AI, Big Data, Cloud Computing, Change Management and Knowledge Management.

Collaboration Opportunities and the Process

Batoi seeks to establish **strong partnerships** with leading **academic institutions** and **research centers** specializing in areas of advanced computing. These collaborations **aim to foster joint research projects, share expertise, and develop innovative solutions** in digital technologies.



Initial Engagement: Interested institutions can initiate collaboration by contacting us through our dedicated portal. A preliminary meeting will be arranged to discuss mutual interests and potential areas of research.



Memorandum of Understanding (MOU): After initial discussions, a formal MOU will be drafted, outlining the scope of collaboration, shared goals, and responsibilities of each party.



Joint Research Committees: We will establish joint research committees comprising members from both BRG and the collaborating institution. These committees will oversee project selection, resource allocation, and research direction.



Shared Resources and Expertise: Collaboration will include sharing of resources such as research facilities, data, and expertise. Regular workshops, seminars, and training sessions will be organized to facilitate knowledge transfer.



Joint Research Projects: We will embark on joint research projects, focusing on innovative solutions in areas like AI, blockchain, IoT, and quantum computing. These projects will aim at practical applications and real-world impact.



Publication and IP Rights: Results from collaborative research will be jointly published, respecting intellectual property rights and ensuring equitable recognition for all contributors.



Continuous Evaluation and Feedback: The collaboration will be regularly evaluated to ensure alignment with our shared objectives, with adjustments made as necessary to maximize the benefits of our partnership.

Next Steps

For more information or to discuss potential collaborations, please contact us at research@batoi.com



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