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.

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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

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Leadership (Batoi Research Group)

Founder 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.

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Next Steps

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

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