ILLINOIS APPLIED RESEARCH INSTITUTE

ILLINOIS APPLIED RESEARCH INSTITUTE STANDS AS A PIVOTAL ORGANIZATION DEDICATED TO ADVANCING APPLIED SCIENTIFIC RESEARCH AND INNOVATION WITHIN THE STATE OF ILLINOIS. THIS INSTITUTE PLAYS A CRUCIAL ROLE IN BRIDGING THE GAP BETWEEN THEORETICAL RESEARCH AND PRACTICAL APPLICATIONS, FOSTERING COLLABORATIONS AMONG ACADEMIA, INDUSTRY, AND GOVERNMENT ENTITIES. BY FOCUSING ON CUTTING-EDGE TECHNOLOGIES AND REAL-WORLD PROBLEM SOLVING, THE ILLINOIS APPLIED RESEARCH INSTITUTE CONTRIBUTES SIGNIFICANTLY TO ECONOMIC DEVELOPMENT AND TECHNOLOGICAL PROGRESS. THE INSTITUTE'S MULTIDISCIPLINARY APPROACH SPANS VARIOUS FIELDS INCLUDING ENGINEERING, COMPUTER SCIENCE, ENVIRONMENTAL SCIENCE, AND HEALTHCARE TECHNOLOGIES. THIS ARTICLE PROVIDES AN IN-DEPTH EXPLORATION OF THE ILLINOIS APPLIED RESEARCH INSTITUTE'S MISSION, KEY RESEARCH AREAS, COLLABORATIVE INITIATIVES, AND ITS IMPACT ON THE INNOVATION ECOSYSTEM. THE FOLLOWING SECTIONS WILL OFFER A COMPREHENSIVE UNDERSTANDING OF HOW THE INSTITUTE OPERATES, ITS STRATEGIC GOALS, AND THE OPPORTUNITIES IT CREATES FOR STAKEHOLDERS INVOLVED IN APPLIED RESEARCH AND DEVELOPMENT.

- Overview of the Illinois Applied Research Institute
- CORE RESEARCH AREAS AND EXPERTISE
- COLLABORATIONS AND PARTNERSHIPS
- FACILITIES AND TECHNOLOGICAL RESOURCES
- ECONOMIC AND COMMUNITY IMPACT
- FUTURE DIRECTIONS AND STRATEGIC GOALS

OVERVIEW OF THE ILLINOIS APPLIED RESEARCH INSTITUTE

THE ILLINOIS APPLIED RESEARCH INSTITUTE IS A PROMINENT RESEARCH ORGANIZATION COMMITTED TO TRANSFORMING INNOVATIVE IDEAS INTO PRACTICAL SOLUTIONS THAT ADDRESS COMPLEX CHALLENGES FACED BY INDUSTRIES AND SOCIETY. ESTABLISHED TO ENHANCE ILLINOIS'S ROLE AS A HUB FOR TECHNOLOGICAL ADVANCEMENT, THE INSTITUTE SUPPORTS APPLIED RESEARCH PROJECTS THAT EMPHASIZE REAL-WORLD APPLICATIONS AND COMMERCIALIZATION POTENTIAL. IT SERVES AS A NEXUS WHERE RESEARCHERS, ENGINEERS, AND BUSINESS LEADERS CONVERGE TO DEVELOP TECHNOLOGIES THAT IMPROVE EFFICIENCY, SUSTAINABILITY, AND QUALITY OF LIFE. THE INSTITUTE'S STRATEGIC FOCUS IS ON LEVERAGING ILLINOIS'S ACADEMIC RESOURCES AND INDUSTRIAL STRENGTHS TO ACCELERATE INNOVATION CYCLES AND FOSTER TECHNOLOGY TRANSFER.

MISSION AND VISION

THE MISSION OF THE ILLINOIS APPLIED RESEARCH INSTITUTE IS TO ENABLE APPLIED RESEARCH THAT DRIVES INNOVATION, SUPPORTS ECONOMIC GROWTH, AND ENHANCES THE QUALITY OF LIFE THROUGH TECHNOLOGY. ITS VISION ENCOMPASSES BECOMING A LEADER IN APPLIED RESEARCH BY PROMOTING INTERDISCIPLINARY COLLABORATION AND FACILITATING THE TRANSITION OF RESEARCH FINDINGS FROM LABORATORIES INTO MARKET-READY PRODUCTS AND SERVICES.

ORGANIZATIONAL STRUCTURE

THE INSTITUTE OPERATES THROUGH A WELL-ORGANIZED FRAMEWORK THAT INCLUDES RESEARCH DIVISIONS, ADMINISTRATIVE UNITS, AND PARTNERSHIP OFFICES. THIS STRUCTURE ENSURES EFFICIENT PROJECT MANAGEMENT, RESOURCE ALLOCATION, AND ALIGNMENT WITH STRATEGIC OBJECTIVES. LEADERSHIP TYPICALLY COMPRISES EXPERIENCED RESEARCHERS AND INDUSTRY VETERANS WHO GUIDE THE INSTITUTE'S INITIATIVES AND STAKEHOLDER ENGAGEMENT.

CORE RESEARCH AREAS AND EXPERTISE

THE ILLINOIS APPLIED RESEARCH INSTITUTE FOCUSES ON A DIVERSE RANGE OF RESEARCH DOMAINS, ADDRESSING CRITICAL NEEDS IN TECHNOLOGY AND SCIENCE. THESE CORE AREAS REFLECT THE INSTITUTE'S COMMITMENT TO APPLIED RESEARCH THAT IS BOTH INNOVATIVE AND IMPACTFUL.

ENGINEERING AND ADVANCED MANUFACTURING

RESEARCH IN THIS DOMAIN INCLUDES THE DEVELOPMENT OF ADVANCED MATERIALS, ROBOTICS, AUTOMATION, AND MANUFACTURING PROCESSES. THE INSTITUTE PIONEERS INNOVATIONS THAT ENHANCE PRODUCTION EFFICIENCY, REDUCE COSTS, AND IMPROVE PRODUCT QUALITY ACROSS VARIOUS INDUSTRIES.

INFORMATION TECHNOLOGY AND CYBERSECURITY

WITH THE INCREASING RELIANCE ON DIGITAL INFRASTRUCTURE, THE INSTITUTE DEDICATES SIGNIFICANT RESOURCES TO CYBERSECURITY, DATA ANALYTICS, AND SOFTWARE DEVELOPMENT. THESE EFFORTS AIM TO PROTECT INFORMATION SYSTEMS FROM THREATS AND OPTIMIZE DATA-DRIVEN DECISION-MAKING.

ENVIRONMENTAL AND ENERGY SOLUTIONS

APPLIED RESEARCH EFFORTS ALSO TARGET SUSTAINABLE TECHNOLOGIES, RENEWABLE ENERGY SOURCES, AND ENVIRONMENTAL MONITORING. THE INSTITUTE SUPPORTS PROJECTS THAT PROMOTE ENERGY EFFICIENCY, POLLUTION REDUCTION, AND RESOURCE CONSERVATION.

HEALTHCARE TECHNOLOGIES

THE INSTITUTE INVESTS IN BIOMEDICAL ENGINEERING, MEDICAL DEVICES, AND HEALTH INFORMATICS TO ADVANCE HEALTHCARE DELIVERY AND PATIENT OUTCOMES. RESEARCH FOCUSES ON INNOVATIVE DIAGNOSTIC TOOLS, TREATMENT METHODS, AND HEALTHCARE DATA MANAGEMENT.

- ADVANCED MATERIALS DEVELOPMENT
- ROBOTICS AND AUTOMATION
- CYBERSECURITY AND DATA PROTECTION
- RENEWABLE ENERGY RESEARCH
- BIOMEDICAL DEVICE INNOVATION

COLLABORATIONS AND PARTNERSHIPS

COLLABORATION IS CENTRAL TO THE ILLINOIS APPLIED RESEARCH INSTITUTE'S STRATEGY FOR FOSTERING INNOVATION. THE INSTITUTE ACTIVELY PARTNERS WITH UNIVERSITIES, PRIVATE COMPANIES, GOVERNMENT AGENCIES, AND NONPROFIT ORGANIZATIONS TO LEVERAGE EXPERTISE AND RESOURCES.

ACADEMIC PARTNERSHIPS

THE INSTITUTE MAINTAINS STRONG TIES WITH ILLINOIS'S LEADING UNIVERSITIES, FACILITATING JOINT RESEARCH PROJECTS, STUDENT INVOLVEMENT, AND TECHNOLOGY COMMERCIALIZATION. THESE PARTNERSHIPS ENABLE ACCESS TO CUTTING-EDGE RESEARCH FACILITIES AND A POOL OF SCIENTIFIC TALENT.

INDUSTRY ENGAGEMENT

BY COLLABORATING WITH INDUSTRY LEADERS, THE INSTITUTE HELPS COMPANIES SOLVE TECHNICAL CHALLENGES, DEVELOP NEW PRODUCTS, AND IMPROVE PROCESSES. THESE PARTNERSHIPS OFTEN INCLUDE SPONSORED RESEARCH, TECHNOLOGY LICENSING, AND WORKFORCE DEVELOPMENT PROGRAMS.

GOVERNMENT AND PUBLIC SECTOR INVOLVEMENT

Working with federal, state, and local agencies, the institute contributes to public initiatives that require applied research expertise. This collaboration supports economic development, infrastructure improvement, and public safety projects.

FACILITIES AND TECHNOLOGICAL RESOURCES

THE ILLINOIS APPLIED RESEARCH INSTITUTE BOASTS STATE-OF-THE-ART FACILITIES DESIGNED TO SUPPORT ADVANCED RESEARCH AND DEVELOPMENT ACTIVITIES. THESE RESOURCES ARE CRITICAL TO THE INSTITUTE'S ABILITY TO CONDUCT HIGH-QUALITY EXPERIMENTAL WORK AND PROTOTYPE DEVELOPMENT.

LABORATORIES AND TESTING CENTERS

THE INSTITUTE OFFERS SPECIALIZED LABORATORIES EQUIPPED FOR MATERIALS TESTING, ELECTRONICS DEVELOPMENT, ROBOTICS, AND ENVIRONMENTAL ANALYSIS. THESE LABS PROVIDE RESEARCHERS WITH THE TOOLS NECESSARY TO PERFORM PRECISE EXPERIMENTS AND VALIDATE TECHNOLOGICAL CONCEPTS.

COMPUTING AND SIMULATION INFRASTRUCTURE

HIGH-PERFORMANCE COMPUTING CLUSTERS AND SIMULATION SOFTWARE ENABLE RESEARCHERS TO MODEL COMPLEX SYSTEMS AND ANALYZE LARGE DATASETS. THIS INFRASTRUCTURE ACCELERATES THE RESEARCH PROCESS AND ENHANCES ACCURACY.

PROTOTYPING AND FABRICATION SERVICES

Access to fabrication facilities, including 3D printing and CNC machining, allows for rapid prototyping of devices and components. This capability supports iterative design and testing essential to applied research projects.

ECONOMIC AND COMMUNITY IMPACT

THE ILLINOIS APPLIED RESEARCH INSTITUTE PLAYS A SIGNIFICANT ROLE IN DRIVING REGIONAL ECONOMIC GROWTH AND SUPPORTING COMMUNITY DEVELOPMENT INITIATIVES. ITS RESEARCH ACTIVITIES CONTRIBUTE TO JOB CREATION, TECHNOLOGY STARTUPS, AND SKILL DEVELOPMENT IN THE WORKFORCE.

TECHNOLOGY COMMERCIALIZATION AND STARTUPS

THE INSTITUTE FACILITATES THE COMMERCIALIZATION OF RESEARCH OUTPUTS BY ASSISTING IN PATENTING, LICENSING, AND THE FORMATION OF STARTUP COMPANIES. THIS PROCESS HELPS TRANSLATE INNOVATIONS INTO MARKETABLE PRODUCTS THAT GENERATE REVENUE AND EMPLOYMENT.

WORKFORCE DEVELOPMENT AND EDUCATION

Through training programs, internships, and workshops, the institute helps cultivate a skilled workforce prepared to meet the demands of high-tech industries. These efforts enhance the employability of students and professionals.

COMMUNITY ENGAGEMENT INITIATIVES

ENGAGEMENT WITH LOCAL COMMUNITIES INCLUDES OUTREACH PROGRAMS THAT PROMOTE STEM EDUCATION AND AWARENESS OF TECHNOLOGICAL ADVANCEMENTS. THE INSTITUTE'S ACTIVITIES SUPPORT INCLUSIVE GROWTH AND INSPIRE FUTURE GENERATIONS OF RESEARCHERS AND INNOVATORS.

FUTURE DIRECTIONS AND STRATEGIC GOALS

THE ILLINOIS APPLIED RESEARCH INSTITUTE IS COMMITTED TO CONTINUOUS GROWTH AND ADAPTATION TO EMERGING SCIENTIFIC AND TECHNOLOGICAL TRENDS. ITS FUTURE PLANS EMPHASIZE EXPANDING RESEARCH CAPABILITIES, ENHANCING COLLABORATIONS, AND INCREASING SOCIETAL IMPACT.

EXPANSION OF RESEARCH PROGRAMS

THE INSTITUTE PLANS TO BROADEN ITS RESEARCH PORTFOLIO BY INCORPORATING EMERGING FIELDS SUCH AS ARTIFICIAL INTELLIGENCE, QUANTUM COMPUTING, AND ADVANCED BIOTECHNOLOGY. THIS EXPANSION AIMS TO MAINTAIN LEADERSHIP IN APPLIED RESEARCH.

STRENGTHENING PARTNERSHIPS

FUTURE STRATEGIES INCLUDE DEEPENING EXISTING PARTNERSHIPS AND ESTABLISHING NEW ALLIANCES WITH INTERNATIONAL RESEARCH ENTITIES AND GLOBAL CORPORATIONS. SUCH COLLABORATIONS WILL ENHANCE RESOURCE SHARING AND INNOVATION OPPORTUNITIES.

ENHANCING INFRASTRUCTURE AND RESOURCES

INVESTMENT IN UPGRADED FACILITIES AND ADVANCED TECHNOLOGICAL TOOLS IS A KEY GOAL TO SUPPORT MORE COMPLEX AND LARGE-SCALE RESEARCH PROJECTS. THIS WILL ENABLE THE INSTITUTE TO ADDRESS INCREASINGLY SOPHISTICATED CHALLENGES.

- 1. Broaden research domains
- 2. DEEPEN COLLABORATIVE NETWORKS
- 3. Upgrade research infrastructure
- 4. Promote technology transfer

FREQUENTLY ASKED QUESTIONS

WHAT IS THE ILLINOIS APPLIED RESEARCH INSTITUTE?

THE ILLINOIS APPLIED RESEARCH INSTITUTE (IARI) IS A RESEARCH ORGANIZATION FOCUSED ON ADVANCING APPLIED SCIENCE AND TECHNOLOGY THROUGH COLLABORATIVE PROJECTS BETWEEN ACADEMIA, INDUSTRY, AND GOVERNMENT ENTITIES IN ILLINOIS.

WHERE IS THE ILLINOIS APPLIED RESEARCH INSTITUTE LOCATED?

THE ILLINOIS APPLIED RESEARCH INSTITUTE IS LOCATED AT THE UNIVERSITY OF ILLINOIS, TYPICALLY ASSOCIATED WITH CAMPUSES SUCH AS URBANA-CHAMPAIGN OR CHICAGO.

WHAT TYPES OF RESEARCH DOES THE ILLINOIS APPLIED RESEARCH INSTITUTE FOCUS ON?

IARI FOCUSES ON APPLIED RESEARCH IN AREAS LIKE ADVANCED MANUFACTURING, INFORMATION TECHNOLOGY, CYBERSECURITY, MATERIALS SCIENCE, AND ENVIRONMENTAL TECHNOLOGY.

HOW DOES THE ILLINOIS APPLIED RESEARCH INSTITUTE COLLABORATE WITH INDUSTRY PARTNERS?

THE INSTITUTE PARTNERS WITH INDUSTRY LEADERS TO DEVELOP INNOVATIVE SOLUTIONS, PROVIDE TESTING AND PROTOTYPING SERVICES, AND FACILITATE TECHNOLOGY TRANSFER FROM RESEARCH TO COMMERCIAL APPLICATIONS.

ARE THERE ANY FUNDING OPPORTUNITIES AVAILABLE THROUGH THE ILLINOIS APPLIED RESEARCH INSTITUTE?

YES, IARI OFTEN HELPS SECURE GRANTS AND FUNDING FROM FEDERAL AND STATE SOURCES FOR COLLABORATIVE RESEARCH PROJECTS, AND SUPPORTS STARTUP COMPANIES THROUGH INCUBATION AND COMMERCIALIZATION PROGRAMS.

CAN STUDENTS GET INVOLVED WITH THE ILLINOIS APPLIED RESEARCH INSTITUTE?

STUDENTS, PARTICULARLY GRADUATE AND DOCTORAL CANDIDATES, CAN ENGAGE IN RESEARCH PROJECTS, INTERNSHIPS, AND COLLABORATIVE INITIATIVES FACILITATED BY THE ILLINOIS APPLIED RESEARCH INSTITUTE.

WHAT RECENT PROJECTS HAS THE ILLINOIS APPLIED RESEARCH INSTITUTE WORKED ON?

RECENT PROJECTS INCLUDE DEVELOPMENTS IN SMART MANUFACTURING SYSTEMS, CYBERSECURITY FRAMEWORKS FOR CRITICAL INFRASTRUCTURE, AND SUSTAINABLE MATERIALS RESEARCH.

HOW DOES THE ILLINOIS APPLIED RESEARCH INSTITUTE CONTRIBUTE TO ECONOMIC DEVELOPMENT IN ILLINOIS?

BY FOSTERING INNOVATION, SUPPORTING TECHNOLOGY COMMERCIALIZATION, AND COLLABORATING WITH LOCAL BUSINESSES, IARI CONTRIBUTES TO JOB CREATION AND ECONOMIC GROWTH WITHIN THE STATE.

HOW CAN COMPANIES PARTNER WITH THE ILLINOIS APPLIED RESEARCH INSTITUTE?

COMPANIES CAN PARTNER WITH IARI BY REACHING OUT THROUGH THEIR OFFICIAL WEBSITE OR LIAISON OFFICE TO PROPOSE JOINT RESEARCH PROJECTS, TECHNOLOGY DEVELOPMENT COLLABORATIONS, OR WORKFORCE TRAINING PROGRAMS.

ADDITIONAL RESOURCES

- 1. INNOVATIONS IN APPLIED RESEARCH: INSIGHTS FROM THE ILLINOIS APPLIED RESEARCH INSTITUTE

 THIS BOOK EXPLORES THE GROUNDBREAKING PROJECTS AND TECHNOLOGICAL ADVANCEMENTS PIONEERED BY THE ILLINOIS APPLIED RESEARCH INSTITUTE. IT DELVES INTO CASE STUDIES SHOWCASING COLLABORATION BETWEEN ACADEMIA AND INDUSTRY, HIGHLIGHTING SOLUTIONS TO REAL-WORLD CHALLENGES. READERS GAIN AN UNDERSTANDING OF APPLIED RESEARCH METHODOLOGIES AND THEIR IMPACT ON REGIONAL AND GLOBAL SCALES.
- 2. BRIDGING THEORY AND PRACTICE: APPLIED SCIENCE AT THE ILLINOIS APPLIED RESEARCH INSTITUTE
 FOCUSING ON THE PRACTICAL APPLICATIONS OF SCIENTIFIC RESEARCH, THIS VOLUME PRESENTS THE WORK CONDUCTED AT THE ILLINOIS APPLIED RESEARCH INSTITUTE THAT TRANSFORMS THEORETICAL KNOWLEDGE INTO TANGIBLE INNOVATIONS. IT COVERS DIVERSE FIELDS SUCH AS ENGINEERING, ENVIRONMENTAL SCIENCE, AND INFORMATION TECHNOLOGY, EMPHASIZING INTERDISCIPLINARY APPROACHES. THE BOOK SERVES AS A GUIDE FOR RESEARCHERS SEEKING TO TRANSLATE IDEAS INTO IMPACTFUL RESULTS.
- 3. APPLIED ENGINEERING BREAKTHROUGHS: CASE STUDIES FROM ILLINOIS APPLIED RESEARCH INSTITUTE
 THIS COLLECTION HIGHLIGHTS SUCCESSFUL ENGINEERING PROJECTS DEVELOPED AT THE ILLINOIS APPLIED RESEARCH INSTITUTE,
 DETAILING THE PROCESSES FROM CONCEPT TO IMPLEMENTATION. EACH CHAPTER PROVIDES TECHNICAL INSIGHTS AND LESSONS
 LEARNED, MAKING IT VALUABLE FOR ENGINEERS AND PROJECT MANAGERS ALIKE. THE BOOK UNDERSCORES THE IMPORTANCE OF
 APPLIED RESEARCH IN ADVANCING ENGINEERING SOLUTIONS.
- 4. ENVIRONMENTAL SOLUTIONS THROUGH APPLIED RESEARCH: CONTRIBUTIONS OF THE ILLINOIS APPLIED RESEARCH INSTITUTE DETAILING THE INSTITUTE'S COMMITMENT TO ENVIRONMENTAL CHALLENGES, THIS BOOK EXAMINES RESEARCH INITIATIVES FOCUSED ON SUSTAINABILITY, POLLUTION CONTROL, AND RESOURCE MANAGEMENT. IT DISCUSSES INNOVATIVE TECHNOLOGIES AND POLICIES DEVELOPED THROUGH APPLIED RESEARCH EFFORTS. ENVIRONMENTAL PROFESSIONALS AND POLICYMAKERS WILL FIND THIS RESOURCE PARTICULARLY INFORMATIVE.
- 5. Data-Driven Discoveries: Applied Research and Analytics at the Illinois Applied Research Institute
 This book covers the role of data analytics and computational methods in applied research projects at the
 Illinois Applied Research Institute. It highlights how big data and machine learning are utilized to solve complex
 PROBLEMS ACROSS VARIOUS SECTORS. THE TEXT PROVIDES CASE STUDIES DEMONSTRATING THE INTEGRATION OF DATA SCIENCE
 WITH APPLIED RESEARCH.
- 6. COLLABORATIVE RESEARCH MODELS: THE ILLINOIS APPLIED RESEARCH INSTITUTE EXPERIENCE
 EXPLORING THE COLLABORATIVE FRAMEWORKS USED BY THE INSTITUTE, THIS BOOK EMPHASIZES PARTNERSHIPS BETWEEN
 UNIVERSITIES, GOVERNMENT AGENCIES, AND INDUSTRY. IT SHOWCASES HOW TEAMWORK AND SHARED RESOURCES DRIVE
 INNOVATION AND ACCELERATE APPLIED RESEARCH OUTCOMES. READERS INTERESTED IN RESEARCH MANAGEMENT AND
 COLLABORATION STRATEGIES WILL BENEFIT FROM THIS DETAILED ANALYSIS.
- 7. Technological Advancements in Applied Materials: Research at the Illinois Applied Research Institute
 Focusing on materials science, this book presents recent developments in applied materials research conducted by
 the Illinois Applied Research Institute. It discusses new materials, testing techniques, and applications in
 various industries such as aerospace and manufacturing. The book is a key reference for materials scientists and
 engineers.
- 8. APPLIED RESEARCH IN TRANSPORTATION INNOVATION: ILLINOIS APPLIED RESEARCH INSTITUTE CONTRIBUTIONS
 THIS VOLUME HIGHLIGHTS INNOVATIONS IN TRANSPORTATION SYSTEMS AND INFRASTRUCTURE DEVELOPED THROUGH APPLIED RESEARCH AT THE INSTITUTE. TOPICS INCLUDE SMART TRANSPORTATION TECHNOLOGIES, SAFETY IMPROVEMENTS, AND SUSTAINABLE MOBILITY SOLUTIONS. TRANSPORTATION PLANNERS AND ENGINEERS WILL FIND VALUABLE INSIGHTS INTO CUTTING-EDGE RESEARCH AND PRACTICAL APPLICATIONS.
- 9. FUTURE DIRECTIONS IN APPLIED RESEARCH: STRATEGIC PERSPECTIVES FROM THE ILLINOIS APPLIED RESEARCH INSTITUTE LOOKING AHEAD, THIS BOOK OUTLINES EMERGING TRENDS AND FUTURE PRIORITIES IN APPLIED RESEARCH AS IDENTIFIED BY THE ILLINOIS APPLIED RESEARCH INSTITUTE. IT DISCUSSES EVOLVING TECHNOLOGIES, FUNDING LANDSCAPES, AND SOCIETAL NEEDS

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History of Illinois - Wikipedia On December 3, 1818, Illinois became the 21st U.S. state. Early U.S. expansion began in the south part of the state and quickly spread northward, driving out the native residents. In 1832,

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