



MICHIGAN STATE UNIVERSITY  
**BOARD OF TRUSTEES**  
Executive Action Summary

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**Committee Name:** Audit, Risk, & Compliance

**Date:** October 25, 2024

**Agenda Item:** Michigan State University (MSU) and Great Lakes Crystal Technologies, Inc. (GLCT)

**Information**

**Discussion**

**Action**

**Resolution:**

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves a sponsored research agreement with Great Lakes Crystal Technologies, Inc. consistent with the term sheet now presented to the Board of Trustees for inclusion in its minutes.

**Recommendation:**

The Trustee Committee on Audit, Risk, & Compliance recommends that the Board of Trustees authorize the agreement between Michigan State University and Great Lakes Crystal Technologies, Inc. in which Michigan State University faculty member, Dr. Timothy Grotjohn, holds a financial interest.

**Prior Action by BOT:**

The Board of Trustees previously approved service agreements with Great Lakes Crystal Technologies, Inc. during the following Board of Trustees meetings: February 14, 2020, May 15, 2020, June 26, 2020, October 20, 2020, April 16, 2021, April 21, 2023, June 16, 2023, and June 28, 2024. The Board of Trustees also previously approved the following agreements with Great Lakes Crystal Technologies, Inc.: rights allocation agreement on May 15, 2020, inter-institutional agreement on February 10, 2023, and license agreement on April 21, 2023. A sponsored research agreement with Great Lakes Crystal Technologies, Inc. was previously approved by the Board of Trustees on September 6, 2024.

**Responsible Officers:**

Douglas A. Gage, Vice President for Research and Innovation

**Summary:**

Michigan State University will carry out the following testing:

- Perform simulations to understand how variations impact properties. Run converter tests of diamond diodes and transistors.

**Background Information:**

The attached term sheet summarizes the agreement between Michigan State University and Great Lakes Crystal Technologies, Inc.

**Source of Funds:**

The Department of Defense/Applied Research Institute will provide \$751,068 for the project.

**Resource Impact:**

MSU faculty, Dr. Edward Gebara will serve as the Principal Investigator and Dr. Timothy Grotjohn will serve as Key Personnel for the project. The Engineering Research Complex will be utilized.

**MICHIGAN STATE**  
**UNIVERSITY**

**SPONSORED RESEARCH AGREEMENT TERM SHEET**

**Party:** Great Lakes Crystal Technologies, Inc.

**Project Description:** High-Performance Diamond Electronics for Next Generation Defense Systems

**Term:** 10/1/2024- 09/30/2027

**Financial Terms:** \$751,068 funded by an Applied Research Institute/Dept of Defense contract

**Services Provided:** By MSU to company: Perform simulations to understand the doping variations. Run converter tests of diamond diodes and transistors.  
By company to MSU: None

**Use of University**

**Facilities/Personnel:** Engineering Research Complex. Dr. Edward Gebara (Principal Investigator); Dr. Timothy Grotjohn (Key Personnel)

**Organization Type and**

**Domicile:** Incorporated in Delaware. Corporate headquarters are in East Lansing, MI.

**Personnel Interest:** Dr. Timothy Grotjohn, MSU Professor in the Department of Electrical and Computer Engineering holds a financial interest in this company.



Office of  
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Executive Action Summary

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**Committee Name:** Audit, Risk & Compliance

**Date:** October 25, 2024

**Agenda Item:** Michigan State University (MSU) and IORA Nature Tech, Inc. Option and Research Use License Agreement

**Information**

**Discussion**

**Action**

**Resolution:**

BE IT RESOLVED, that the Board of Trustees of Michigan State University hereby approves an option and research use license agreement with IORA Nature Tech, Inc. consistent with the term sheet now presented to the Board of Trustees for its inclusion in its minutes.

**Recommendation:**

The Trustee Committee on Audit, Risk, & Compliance recommends that the Board of Trustees authorize the agreement between Michigan State University and IORA Nature Tech, Inc. in which Michigan State University faculty members Dr. David Skole and Jay Samek hold a financial interest.

**Prior Action by BOT:**

Not applicable.

**Responsible Officers:**

Douglas A. Gage, Vice President for Research Innovation

**Summary:**

An option and research use license agreement for the following technology is presented for the Board's approval:

- TEC2025-0005 “A digital measurement, reporting and verification platform for forest and tree carbon and emissions estimation using advanced remote sensing and deep machine learning tools.”

**Background Information:**

The attached term sheet summarizes the agreement between Michigan State University and IORA Nature Tech, Inc.

**Source of Funds:**

Not applicable - consideration is provisional of business plans and due diligence in preparation for licensing.

**Resource Impact:**

Not applicable.

**MICHIGAN STATE**  
**UNIVERSITY**

**TERM SHEET**

**Party:** IORA Nature Tech, Inc.

**Project Description:** Option and Research Use License, TEC2025-0005 "A digital measurement, reporting and verification platform for forest and tree carbon and emissions estimation using advanced remote sensing and deep machine learning tools."

**Term:** October 15, 2024 to April 15, 2025

**Financial Terms:** None, consideration is provisional of business plans and due diligence in preparation for licensing.

**Services Provided:** By MSU to company: none  
By company to MSU: none

**Use of University Facilities/Personnel:** None

**Organization Type and Domicile:** C-corporation, Delaware

**Personnel Interest:** Michigan State University (MSU) Professor David Skole, Department of Forestry and Jay Samek, Department of Forestry holds an equity interest of 1% or greater in IORA Nature Tech, Inc.



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