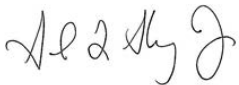


APPROVED
OCTOBER 28, 2022
BOARD OF TRUSTEES
MICHIGAN STATE UNIVERSITY

October 28, 2022

MEMORANDUM

To: Committee on Budget and Finance

From: Samuel L. Stanley, Jr., M.D. 
President

Subject: State of Michigan Fiscal Year (SFY) 2024 Capital Outlay Project Request and Five-Year Capital Plan

RECOMMENDATION

The Trustee Committee on Budget and Finance recommends that the Board of Trustees adopt Michigan State University’s SFY2024 Capital Outlay Request for State of Michigan cost participation for the project titled “Engineering and Digital Innovation Building”, and the Five-Year Capital Plan.

Action on the request authorizes the Administration to respond to the State of Michigan Budget Office reporting requirements and submit a Capital Outlay request for state cost participation. The report and request are due to the State Budget Office no later than October 28, 2022.

RESOLUTION

BE IT RESOLVED that the Board of Trustees of Michigan State University hereby adopts the 2024 Capital Outlay Project Request, and Five-Year Capital Outlay Plan included as Attachment A hereto.

BACKGROUND

The State of Michigan Capital Outlay process requires that public universities and community colleges submit a Five-Year Capital Outlay Plan that is intended to provide state policymakers with the most current information available on institutional priorities and needs. Institutions may request state funding of a capital outlay project. The requested project must be a logical extension of information contained in the Five-Year Capital Plan and address a specific academic or research need of the institution. The plan must be approved annually by the institutions governing body and is to include state supported and institutional funded projects.

To optimize flexibility the university provides a more significant potential list of priority projects, hence the list appears greater than the number of



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projects that would move forward in the five-year timeframe. The MSU capital outlay project request and capital priorities support programs that have strong national reputations, expanding research bases, and have high enrollment demand that will sustain the university and its contributions to Michigan. Funding of these requests will provide economic development in the state, now and in the long term.

Capital Outlay Project Request is for construction of a new Engineering and Digital Innovation Building. The new building will support the emergence of a strong and transformative ecosystem focused on the convergence of digital and physical technologies. It will bring together a range of teaching, learning, and research activities across multiple colleges and disciplines to create an energized, innovative, and entrepreneurial community focused on digital futures. The academic partnership across six Colleges: Engineering, Natural Science, Arts and Letters, Business, Communications Arts and Sciences, and Social Science is intentional and will lead to interdisciplinarity in learning and research.

The building will (a) provide new capacity, (b) align modern building infrastructure, space functionality, and (c) support the consolidation of top-ranked researchers and students, thereby enabling new synergies and enhanced potential for discovery and increase the potential to attract significant federal funding in high-demand research areas. This building will be a physical and symbolic gateway to the digital future at MSU – a home for new ideas and transformational learning and research.

The new building will (a) support an increase in enrollment of new undergraduate students in computational sciences and digital literacy disciplines, and in graduate related programs, (b) prepare MSU graduates with skills in computational sciences and digital literacy necessary for postgraduate success, and (c) become MSU's center for excellence in advanced manufacturing, materials science, ultrafast science, and quantum computing including heterogeneous micro-electronic technologies.

This investment will provide the foundation to respond to industry needs and student demand, support economic development in Michigan, leverage the opportunities provided by FRIB for heavy-ion radiation testing of integrated chip-based systems, and provide research infrastructure for growth in materials research and emerging initiatives such as semiconductor research.

Attachment A: Five-Year Capital Plan

cc: Board of Trustees, T. Woodruff, N. Beauchamp, M. Woo, M. Zeig, B. Quinn, K. Wilbur, D. Gage, L. Frace, B. Kranz, V. Gore, A. Haller, D. Bollman, T. Glasmacher

Attachment A

Michigan State University

Fiscal Year 2024 Capital Outlay Project Request and Five-Year Capital Plan

		FY23 Est. (mil.)
Capital Outlay Project Request – New Construction		
• Engineering and Digital Innovation Building - New Const. - Rsch Support and Expansion		\$250.0M
MSU 5-Year Capital Planning (Alphabetical Order)		
Renovations and Additions		
• Auditorium Building - Renovation of the main auditorium to support teaching, learning, outreach		TBD
• Barrier-Free Accessibility Projects - Single Occupant/ADA Restrooms - High Priority Buildings		\$4.4-\$5.5
• Biomedical Discovery		
◦ Biomedical Animal Resources - Provision for Large Animal Housing and Surgery		\$13.6 - \$19.8
◦ Clinical Center A-Wing – Renovate for Research Expansion		\$78.5 - \$90.5
◦ Clinical Center B-Wing – Renovate for Research Expansion & Learning		\$18.2 - \$24.1
• BSL-3 - Research Expansion Multi-Species Flexible Housing/Procedure Space (Ph. 2 of 2)		\$11.6 - \$12.7
• Campbell Hall - Renovation		\$22.0
• Chemistry HVAC Renewal		\$40.0M
• Core Aquatic Species Research Facility - Renovation and/or Addition Rsch. Support and Exp.		\$27.5-\$33.0
• Duffy Daughterty - Additional Renovations to Support Student Athlete Wellness		\$40.0
• Engineering - Renovations - Research and Learning - New Construction Related Backfill		\$11.0 - \$13.2
• Grand Rapids Research Center (GRRC) 5th Floor Lab Fit-out		\$8.4
• Jenison Weight Room/Athletic Training Room Renovation		\$20.0
• Kresge Art Center - Comprehensive Renovations - Teaching and Learning, Research		TBD
• Learning Space Improvements – Annual Investment for Updates and Improvements (5-Year need, \$12.0 annually)		\$60.0
• Life Science Building (A & B) HVAC replacement and related (phased approach)		\$77.0 - \$88.0
• Old Botany – Comprehensive Renovation		\$12.4 - \$12.8
• One-Stop for Student Services		\$2.0-\$3.0
• Outdoor Track Relocation		TBD
• Owen Hall - Convert back to Student Rooms (requires identification of new locations for remaining academic programs)		\$2.6
• Parking Lot 38 (Erickson)		\$1.9
• Parking Lot 46 (Integrated Plant Sciences)		\$1.5
• Plant and Environmental Sciences - Renovate Existing Plant Biology Building Research, Teaching and Learning		\$83.6-\$104.5
• Student Services Building - Renovate for Student Support - First Floor Career Services Area		\$2.2 - \$3.3
• Tennis Courts - New/Relocation to outside of Tennis Building		TBD
• Transportation Services - Relocation		\$24.1 - \$26.5
• 195 Crescent Road - Limited modifications to 1st and 2nd floors for IT Services space consolidation		\$1.2

New Construction - New Building

• Chemical Waste Facility - New Construction	\$36.2
• Health/Clinical Sci. Simulation Facility (multi-college) -Teaching/Learning, Rsch., Outreach	TBD
• Health Education Building - Teaching and Learning and Academic Support - Renovations and/or New Construction (East Lansing)	TBD
• MSU Health Care - Medical Services Building	TBD
• MSU, Henry Ford Health System Partnership - New Research Building (Detroit) - Long-term Lease	TBD
Major Systems Maintenance & Utilities (Alphabetical Order)	
• Capital Renewal (5-Year need, \$35.0 annually)	\$175.0
• Regional Chilled Water Plant - Convert to Electric Chillers	TBD
• Utilities (5-year) – Power Plant Modernization	
○ Battery Energy Storage System	\$2.2
○ Combustion Turbine/Heat Recovery Steam Generator/Steam Turbine (Part 1/2 - demolition)	\$20.0
○ Combustion Turbine/Heat Recovery Steam Generator/Steam Turbine (Part 2/2 - design/construction)	\$40.0
○ East Cooling Tower Replacement	\$9.0
○ Electrical Centrifugal Chillers – 8,400 tons	TBD
○ Package Boiler	\$20.0
○ RICE Engine	\$16.0
○ Unit 4 Boiler Fluidized Bed Conversion	\$10.0
○ #2 Steam Turbine Generator Stator Rewind	\$2.5