

# H-STEM Building Update

University Senate Meeting  
February 20, 2018  
Jason R. Carter, AVPRD

# Strategic Faculty Hiring Initiative

- 2006 Sustainability
- 2007 Computing
- **2008 Competitive Review Process**

## 2008 Finalists:

- Energy
- Transportation
- Health\*

\* *co-lead w/ BME faculty member*

Rank	University	NIH %
51	North Carolina State	12%
51	Buffalo-SUNY	65%
51	U Kansas	73%
51	U New Hampshire	5%
55	Rutgers	44%
55	U Oregon	46%
55	U South Carolina	37%
<b>58</b>	<b>Michigan Tech</b>	<b>3%</b>
58	U Arizona	36%
60	Washington State	21%

University	NIH %
MIT	48%
Georgia Tech	8%
Cal Tech	16%
Virginia Tech	13%
RPI	18%
Lehigh Univ	19%
<b>Michigan Tech</b>	<b>3%</b>

Data from 2007 U.S. News & World Report and NSF Division of Science Resource Statistics

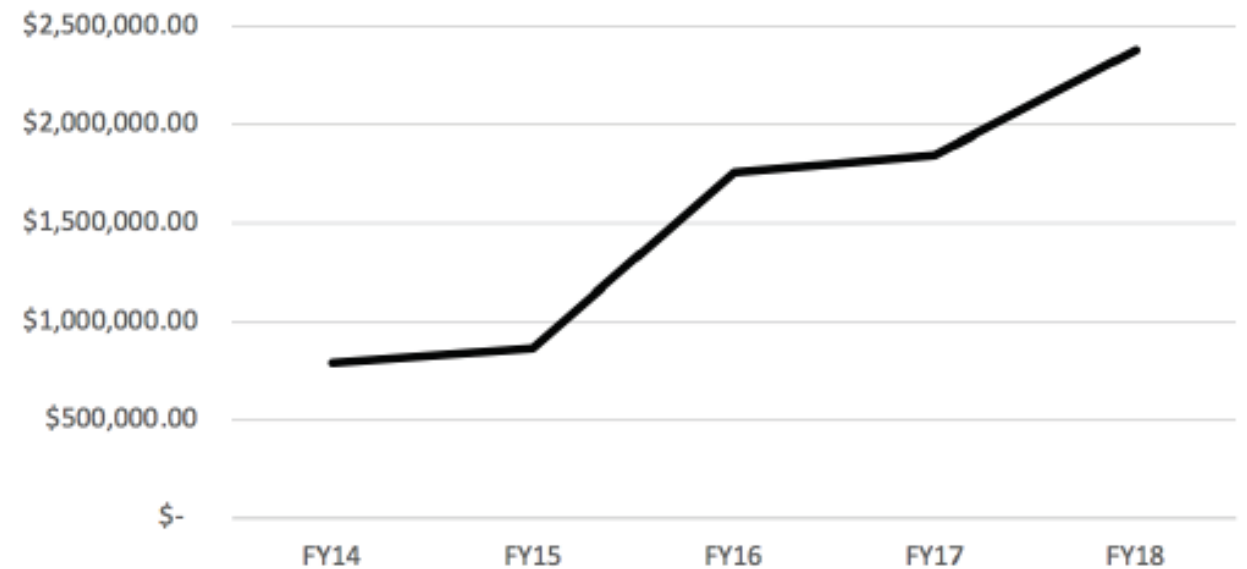
# A Decade of Healthy Growth

## 7 new SFHI hires in 2009 & 2010:

*1.4 Kinesiology, 1 Biomed Eng, 1 Chem, 1 Biology,  
1 School of Technology, 1 Humanities, 0.6 Psychology*



## 5-Year Annual Research Expenditures from NIH Grants at Michigan Tech



Currently 16 active NIH grants: \$6,823,894  
(*NIH RePorter; February 2019*)

# PHF-MTU Partnership



## THE PARTNERSHIP

*"Coming together is a beginning.  
Keeping together is progress.  
Working together is success."  
- Henry Ford*

**This proposal leverages the strengths, strategic missions, and finances of Michigan Tech and Portage Health Foundation to invest over \$6.7 million\* into health education and research over the next 5 years. The goal is to build a sustainable micropolitan community of wellness, health talents, high-caliber synergy and leadership.**

*\* Does not include potential investment from state and university towards a requested \$50+ million Health Sciences and Medical Engineering Building.*

Three Endowed Professorships

Health Research

Health Scholarships Interns Fellowships

SUBTOTAL

TOTAL PARTNERSHIP

\$592,500 per year  
• Salary & fringes  
• Start-up costs

\$110,000 per year  
• Seed research  
• Commercialization  
• Infrastructure/Core

\$140,000 per year  
• UG scholarship  
• Research/Clinical Intern  
• GRAD fellowship

\$842,500 per year

\$4,212,500 (5 year total)\*

\$250,000 per year  
• Annual endowed payout  
• Principle pay down

\$110,000 per year  
• Seed research  
• Commercialization  
• Infrastructure/Core

\$140,000 per year  
• UG scholarship  
• Research/Clinical Intern  
• GRAD fellowship

\$500,000 per year

\$2,500,000 (5 year total)

## PHF Endowed Professorships

- Community and Preventive Health
- Population Health
- Technological Innovations in Health





# Making a Difference





# Making a Difference

84%

27 of 32 scholars  
are women

## Talent Recruitment and Retention

- 20 of the 24 students with \$1,000 per year scholarships remain enrolled in MTU health degrees.
- 12 of the 12 students with \$8,000 per year scholarships remain enrolled in MTU health degrees.



# Next Steps in Building Programming

## Requested from the State with Estimated Costs

Five-Year State Capital Outlay Plan and FY 2020 Capital Project Request

Rank	Project Name	Gross Sq. Ft. New	Gross Sq. Ft. Renovated	Total Project Cost (000s)	State Funds (000s)	Est. Cost. Univ. Funds (000s)	Start/End Dates (years)
1	H-STEM Engineering and Health Technologies Complex – Phase 1	68,000	47,000	\$44,700	\$29,700	\$15,000	2020/2023
2	Integrated Student Maker Spaces	30,000	50,000	\$27,000	\$20,250	\$6,750	2021/2024
3	H-STEM Engineering and Health Technologies Complex – Phase 2	100,000	48,000	\$74,200	\$55,650	\$18,550	2022/2025

Link to full capital outlay request: <https://www.mtu.edu/facilities/resources/documents/>

### 3-Tier Review of Programming Prioritization

- Faculty Committee (2 departmental reps from BME, BIO, CHEM, CHEM ENG, KIP)
- Chair/AVPRD Committee (Carter, Frost, Kirkpatrick, Joshi, Pradeep, Jaszczak)
- Executive Committee (Abbott, Huntoon, Reed, Sleeman)

# Proposed Timeline for H-STEM

(subject to modification)

