## **Project Description**

The College of Engineering's new research and teaching facility for its Robotics program is a four-story, state-of-the-art facility. The building is approximately 140,000 gross square feet with high bay labs, dedicated shops, and classrooms and office space. The building also accommodates space for its corporate partner, Ford Motor Company, who has

### **Active Occupants**







1005418

CILITIES & OPERATIONS CHITECTURE, ENGINEERING AND CONSTRUCTION

U-M Building Number

co-located collaborative research activities within the facility. The building has an open plan design concept to provide flexibility while encouraging collaboration between faculty, students, and researchers. Testing labs include a robot walking lab, a flight testing lab, a rehabilitation robotics lab, and labs for electronics and software development.





LEED version		2009
LEED certification level		Gold
ASHRAE 90.1 version		2007
Energy cost savings compared to ASHRAE baseline		31%
Total energy savings	\$96	,222/ year
Total electrical savings 176,737 KWh / year		
Total gas savings 83,	091 The	rms / year
CO2 emissions avoided 565 Metric Tons		
Water fixture baseline2012 Michiga	in Plumk	oing Code
Total water savings		36%
Construction/Demolition waste diverted from landfill		84%
Insulation (R-Value)*	Code	Project
Wall assembly - above grade Limestone Panel w/CMU	15.6	22.7
Wall assembly - above grade Insulated Metal Panel	15.6	23.9
Slab on Grade Floors	0	15
Roof assembly	20	35
Glazing - Curtain wall system		
U-value**	0.55	0.25
Solar Heat Gain Coefficient (SHGC)**	0.40	0.15
Visible Light Transmittance (VT)***	1.10	23
Glazing - Skylight		
U-value**	1.17	0.39
Solar Heat Gain Coefficient (SHGC)**	0.49	0.51
Visible Light Transmittance (VT)***	N/A	0.73
Project Team		
Owner University of Michigan - Col	lege of Ei	ngineering
Architect		HED
Engineer		HED

Architect	HE
Engineer	HE
Contractor	Devon Instrutrial Group (DIC
Commissioning Authority	U-M AE
Project Management	U-M AE

# Ford Motor Company Robotics Building

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