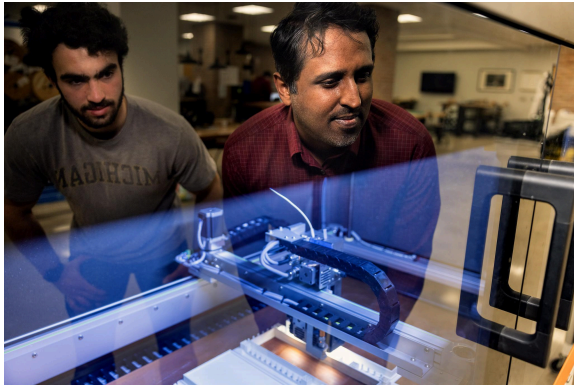


April 14, 2025

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## Captions: Remote repairs: discovering the longevity of 3D-printed metal parts



■ 3D-print.jpg | [Flickr link](#)

Veera Sundararaghavan and PhD student Michael Pilipchuk observe a 3D printer at U-M, appearing in a reflection. Sundararaghavan is leading a DARPA project to predict the lifetimes of metal parts printed with laser powder bed fusion (LPBF). Printers that produce plastic parts, like the one in the photo, will be used to build mounts for the LPBF monitoring system. Photo: Marcin Szczepanski/Michigan Engineering

Alt: Two men are reflected in the glass of the 3D printer, which is producing a plastic structure.

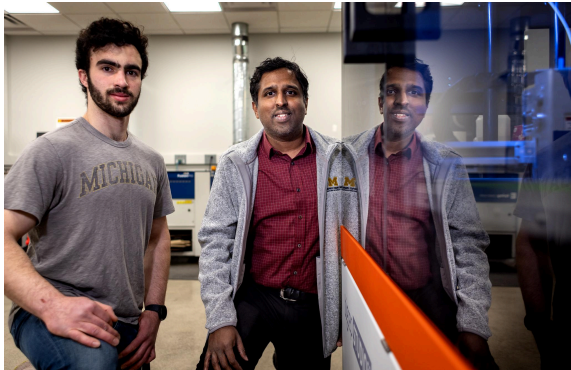


■ 3D-print-programming.jpg | [Flickr link](#)

Veera Sundararaghavan programs a 3D printer while PhD student Michael Philipchuk observes. Sundararaghavan is leading a DARPA project to predict the lifetimes of metal parts printed with laser powder bed fusion (LPBF). Printers that produce plastic parts, like the one in the photo, will be used to build mounts for the LPBF monitoring system. Photo: Marcin Szczepanski/Michigan

Engineering

Alt: One man makes selections on the touch screen of the 3D printer while another peers into the glass case.



■ sundararaghavan-pilipchuk.jpg | [Flickr link](#)

Veera Sundararaghavan and PhD student Michael Pilipchuk stand next to a 3D printer at U-M. Sundararaghavan is leading a DARPA project to predict the lifetimes of metal parts printed with laser powder bed fusion (LPBF). Printers that produce plastic parts, like the one in the photo, will be used to build mounts for the LPBF monitoring system. Photo: Marcin Szczepanski/Michigan Engineering

Alt: Two men are reflected in the glass of the 3D printer, which is producing a plastic structure.



■ prism-kickoff.jpg

From the left, Shuchi Khurana (Addiguru), Veera Sundararaghavan (U-M), Mohsen Andani (TAMU), Boris Kramer (UCSD) and Nima Shamsaei (Auburn) at the kick-off meeting for a project to discover the longevity of 3D-printed metal parts. Photo courtesy of Andani.

Alt: Five men stand near a meeting room door with a screen that reads "SURGE."

[More photos on Flickr](#)