

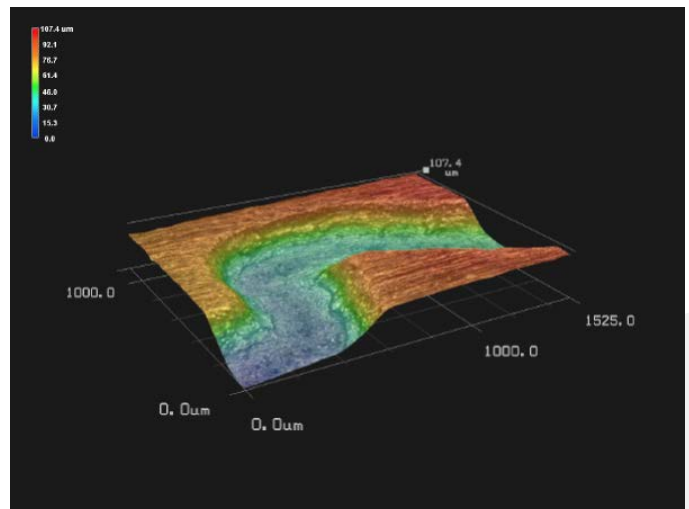
METAL FORMING

TECHNICAL STRENGTHS

- Stamping
- Sheet metal forming
- Die Forming
- Precision Forming
- Lightweight materials
- Cutting tools wear
- High Speed milling coatings
- Hot and cold precision forging
- Rapid tool manufacturing
- Simulation and optimization of forging
- Machining: High speed machining of hardened steels, titanium alloys, aluminum alloys
- Forging: aluminum, titanium, steels, superalloys
- Microstructural transformations during deformation processing and finishing
- Probabilistic Bayesian life predictions; design framework; material + processing + fatigue

FACILITIES

- Center for Excellence in Forging Technology
- Center for Precision Forming



KEY EXPERTISE

- Rajiv Shivpur, Professor, Integrated Systems Engineering
- Glenn Daehn, Executive Director, Ohio Manufacturing Institute; Professor, Materials Science and Engineering
- Taylan Altan, Professor Emeritus Integrated Systems Engineering Director, ERC for Net Shape Manufacturing
- Rob Wagoner, Professor, Mechanical & Aerospace Engineering, Materials Science Engineering