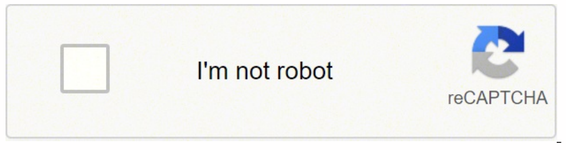

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The lab focuses on additive manufacturing of metals and especially binder jet printing and the influence of post-processing on microstructural evolution and properties. Dr. Cramer’s current areas of research include ceramic and composite materials development for binder jetting, development of new metal-matrix and ceramic-matrix composites, processing of ceramics, and novel processing and printing of ceramic materials. He is a member of SME and ACERS.Dr. Peeyush Nandwana got his Bachelor of Technology at Visvesvaraya National Institute of Technology, India (Metallurgical and Materials Science and Engineering), M.Sc. and Ph.D. at the University of North Texas (Materials Science and Engineering). At Lockheed Martin, he was responsible for developments in advanced polymers, composites, carbon nanotubes, novel titanium production and processing, additive manufacturing of both polymer and metallic systems, and low observable manufacturing methods. Dr. Elliott’s current areas of focus include materials development for binder jetting of heat exchangers in harsh environments, binder development for metal powders, computational modeling of sintering distortion, and development of new metal matrix and ceramic matrix composites for use in mining and fossil extraction, heat exchange, armor, and neutron collimation.Dr. John Barnes is the Founder of The Barnes Group Advisors and was Vice President of Advanced Manufacturing & Strategy at Arconic, where he worked with Airbus to qualify the first titanium additively manufactured parts for series production on the A350. In 2017, the faculty of Carnegie Mellon University appointed him an Adjunct Professor of Materials Engineering. Dr. Mostafaei has published literature in high temperature corrosion and failure analysis of stainless steels and nickel-based superalloys used in petroleum and nuclear power plants, multi-functional organic coatings, welding metallurgy, and nanomaterials fabrication. He currently works in the Laboratory of Laser-based Manufacturing and focuses his research on the computational fluid dynamics and fluid-structure interaction in various additive manufacturing process, including binder jetting, laser powder bed fusion, and directed energy deposition. The overarching umbrella of all research activities is quantitative characterization of microstructure, defects, mechanical, electrical, magnetic, and thermal properties on different length scales using local, national, and international facilities, including synchrotron and neutron diffraction and collaborations. He has worked on various additive manufacturing technologies such as powder bed electron beam melting, laser powder bed fusion, laser wire deposition, and binder jet additive manufacturing of various materials such as titanium alloys, nickel-based superalloys, and steels. To find out how you can make your money go further, read our guides to finance in Germany. View PDFVolume 119, June 2021, 100707 rights and contentPrint processing parametersDr. Amir Mostafaei is an Assistant Professor in the Department of Materials, Mechanical and Aerospace Engineering at the Illinois Institute of Technology, Chicago, since January 2020, with a Ph.D. in Materials Science and Engineering from the University of Pittsburgh, PA, USA, a post-doc research fellow at the Manufacturing Futures Initiatives (MFI) Center at Carnegie Mellon University between September 2018 and December 2019 and an M.Sc. degree in Corrosion and Materials Protection (Sahand University of Technology, Iran). Understanding your money management options as an expat living in Germany can be tricky. He is a post-doctoral research associate in the Binder Jet Additive Manufacturing Team at Oak Ridge National Laboratory’s (ORNL) Manufacturing Demonstration Facility since 2017, where he has led projects on ceramics, ceramic composites, and metal-ceramic composites. He has several patent disclosures filed since working at ORNL. Dr. Nandwana’s research focuses on applying materials science fundamentals to address the demands of various manufacturing industries via additive manufacturing.Dr. Markus Chmielus is an associate professor in the Mechanical Engineering and Materials Science Department since September 2013, with a PhD in materials science and engineering from the Technical University of Berlin and the Helmholtz Center for Materials and Energy, Germany, a post-doc at Cornell University (2010 to 2013) and MS degrees in aerospace engineering (University of Stuttgart, Germany) and materials science and engineering (Boise State University). Furthermore, Dr. Nandwana leads the effort on developing hot isostatic pressing cycles for additive manufacturing materials to improve mechanical properties such as fatigue strength for these materials. She served as the PI for Binder Jet Additive Manufacturing at Oak Ridge National Laboratory’s Manufacturing Demonstration Facility (MDF) since 2014, leading over $4M in research in printed metal powder densification, modeling, and printing along with binder development. From opening a bank account to insuring your family’s home and belongings, it’s important you know which options are right for you. Prior to Arconic, he was Director of the High-Performance Metals Program for the CSIRO, the national science agency for Australia where he oversaw the R&D and commercialization activities and investments in the program’s two principal areas: metal production and additive manufacturing. He also received the prestigious CAREER award of National Science Foundation in 2018.Dr. Corson L. Dr. Chmielus’s Advanced Manufacturing and Magnetic Materials Laboratory performs research on functional and structural metals on the influence of production and processing parameters on the properties and microstructure. John has 12 patents issued or pending and has given numerous invited presentations is published internationally. Prior to this, he worked in the Shanghai Key Laboratory of Digital Manufacture for Thin-Walled Structures from 2016 to 2018, where he investigated the process-microstructure-property relationship in the novel metallic bump-assisted resistance spot welding and the magnetic assisted resistance spot welding technologies. In 2014, he was awarded Purdue University’s Outstanding Materials Engineer of the Year and was given an Adjunct professorship at RMIT. Dr. Nandwana leads the effort on densification of tool steels and other monolithic alloys deposited via binder jet additive manufacturing with a focus on materials characterization and mechanical behavior. A main interest is the understanding of microstructural evolution during printing and post-processing and how different additive manufacturing methods and processing affect the functional properties of functional magnetic materials. He has published literature in powder processing, thin-film processing, ceramics, semiconductors, and thermoelectrics. Finally, Dr. Mostafaei’s research mainly focuses on applying fundamental aspects of materials science and engineering to address the demands of various manufacturing industries via additive manufacturing.Dr. Amy Elliott got her BS from Tennessee Technological University and her Ph.D. is from Virginia Polytechnic and State University, both Mechanical Engineering. Effects of print processing optimization during binder jetting as well as post-processing development including sintering and surface treatment of the 3D printed parts were investigated on the microstructural evolution, phase formation, and resulting properties of binder jetted parts. Additionally, he has been working on laser powder bed fusion of metallic materials and evaluation of the processing parameters on the microstructure, porosity distribution, mechanical properties, and corrosion behavior of various additive manufactured parts from titanium, aluminum, stainless steel, and nickel-based alloys. Cramer went to Michigan Technological University for my BS in mechanical engineering and Colorado State University for M.Sc. and Ph.D. in mechanical engineering. His Ph.D. research was primary on binder jet 3D printing of structural, bio-compatible, metal matrix composites and magnetic shape memory alloys. He received his BS and MS degrees in mechanical engineering from Shanghai Jiao Tong University.Dr. Wenda Tan is an assistant professor in the Department of Mechanical Engineering at the University of Utah. He is also the director of the Laboratory of Laser-based Manufacturing. He is a research staff member at Oak Ridge National Laboratory’s Manufacturing Demonstration Facility since 2014. He received his BS and MS degrees in Mechanical Engineering from Tsinghua University, China, and his PhD degree in Mechanical Engineering from Purdue University. He takes advantage of such expertise to investigate the fundamental science regarding the process-microstructure-property relationship in various manufacturing processes, such as additive manufacturing, welding and joining, and casting. His aerospace background includes lengthy positions at Honeywell Engines, where he supported gas turbine advanced technology and was program manager of Marine Engines programs and as senior manager for Manufacturing Exploration and Development at Lockheed Martin Skunk Works. John holds a BS in materials science and engineering and an MS in metallurgical engineering from Purdue University.Fangzhou Li is a PhD student in the Department of Mechanical Engineering at the University of Utah. The second research area is fundamental research, manufacturing, and applications of functional, magnetic materials such as Ni-Mn-Ga magnetic shape-memory alloys and magnetocaloric materials, especially the aspect of using additive manufacturing as a new avenue to produce these materials. His major expertise lies in the areas of computational heat transfer, computational fluid mechanics, and computational materials. As part of her role at the MDF, Dr. Elliott meets with people in industry around the world to consult on the proper application of binder jetting technology in manufacturing.

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