Jianyue Zhang appointed Research Assistant Professor

Dr. Jianyue Zhang has been appointed as a Research Assistant Professor in the Department of Materials Science and Engineering at The Ohio State University. His research focuses on advancing metal casting and sustainable manufacturing through the development of next-generation lightweight metallic materials and innovative processing technologies. His expertise spans a broad range of areas, including high-pressure die casting (HPDC), solidification science, casting defect prediction and mitigation, lightweight alloy design and development, metal recycling, and advanced manufacturing. Through an integrated approach combining fundamental materials science, computational modeling, and advanced manufacturing technologies, Dr. Zhang aims to improve casting quality, optimize manufacturing processes, and enable the sustainable production of high-performance metallic components. His research emphasizes translating scientific discoveries into practical, industry-relevant solutions to address emerging challenges and advance innovation in the automotive and broader manufacturing industries. Dr. Zhang is presently engaged in several Advanced Casting Research Center (ACRC) research projects.



