Faculty Position in the Grado Department of Industrial and Systems Engineering
Virginia Tech – *Assistant Professor, Manufacturing Analytics and AI*

The Grado Department of Industrial and Systems Engineering (ISE) at Virginia Tech invites applications for a tenure-track faculty position at the rank of Assistant Professor, effective August 2024. We seek outstanding candidates with a focus on ***Manufacturing Analytics and Artificial Intelligence (AI)***, including but not limited to advanced manufacturing; design automation and generative design; autonomous manufacturing processes; Industrial Internet; AI and machine learning for advanced manufacturing; AI applications to materials discovery and materials genome; machine-process interactions; digital twins; robotics, automation, and human-robotic interaction; renewable and sustainable manufacturing processes and systems; emerging topics in manufacturing and supply chain, such as sustainability, security, and resilience; and closely related areas within the domains of Manufacturing Design and Process Innovation, and Augmented Industrial Data and Decision Science. We are seeking candidates motivated to contribute to a collegial, interdisciplinary community with a strong tradition of both fundamental and applied research, high-quality teaching, and mentoring.

The ISE Department has 33 tenured/tenure-track faculty, with an additional ten non-tenure-track instructional and research faculty. Six faculty are recent early investigator recipients, and numerous others have received international or national recognition. Academic programs and research in the department encompass Human Factors Engineering and Ergonomics, Management and Systems Engineering, Manufacturing Systems Engineering, and Operations Research. Candidates will thus have the opportunity to work with a broad range of departmental faculty, as well as with faculty in many other colleges, centers, and institutes at Virginia Tech. The department is home to approximately 600 undergraduate students, 140 master's students, and 115 doctoral students. The undergraduate and graduate ISE programs are currently ranked fourth and sixth, respectively, by U.S. News & World Report. Additional information is available at: www.ise.vt.edu.

Virginia Tech is a public land-grant university, committed to teaching and learning, research, and outreach to the Commonwealth of Virginia, the nation, and the world. Building on its motto of Ut Prosim (that I may serve), Virginia Tech is dedicated to InclusiveVT—serving in the spirit of community, diversity, and excellence. Virginia Tech actively seeks a broad spectrum of candidates to join our community in preparing leaders for the world. The College of Engineering undergraduate program ranks 16th and graduate program ranks 30th among all U.S. engineering schools (USN&WR). The Mission of the College of Engineering is to educate and inspire our students to be critical thinkers, innovators and leaders. Our core values are inclusiveness, excellence, integrity, perseverance and stewardship. Virginia Tech's main campus is located in Blacksburg, VA, in an area consistently ranked among the country's best places to live. In addition, our program in the Washington, D.C. area offers unique proximity to government and industry partners and is also expanding rapidly, with Virginia Tech's exciting new Innovation Campus in Alexandria, VA, slated to open in 2024.

Candidates are expected to lead innovative scholarship and research, develop and sustain an externally-funded research program, teach and mentor undergraduate and graduate students, and serve the university and the profession. The successful candidate will have a Ph.D. in industrial and systems engineering or a closely related field, a strong record of academic accomplishments, a demonstrated ability to work collaboratively, a commitment to interdisciplinary research and instruction, and a willingness to expand disciplinary boundaries to address complex technical and societal challenges.

Applicants must apply online at *jobs.vt.edu* (posting number 527075). Application materials include a cover letter, CV, up to three relevant research publications, and contact information for at least three professional references. In addition, applicants must provide a research statement and a teaching & mentoring philosophy (limited to three pages each). The teaching & mentoring statement should describe the candidate's ideas for supporting an equitable and inclusive educational environment consistent with the Virginia Tech Principles of Community; specific examples of experiences, activities, and plans will help us identify candidates who can support and extend our University's commitment to inclusive excellence. Review of applications will commence

November 6, 2023 and continue until the position is filled. Questions regarding the positions should be directed to Dr. Ran Jin (jran5@vt.edu).

The department fully embraces Virginia Tech's Commitment to increase faculty, staff and student diversity; to ensure a welcoming, affirming, safe and accessible campus climate; to advance our research, teaching, and service mission through inclusive excellence; and to promote sustainable transformation through institutionalized structures. Virginia Tech does not discriminate against employees, students, or applicants on the basis of age, color, disability, sex (including pregnancy), gender, gender identity, gender expression, genetic information, national origin, political affiliation, race, religion, sexual orientation, or veteran status, or otherwise discriminate against employees or applicants who inquire about, discuss, or disclose their compensation or the compensation of other employees or applicants, or on any other basis protected by law. If you are an individual with a disability and need an accommodation, please contact Heather Huddleston at heahudd@vt.edu or at (540) 231-9079.