Dr. Amit Goyal was recruited to SUNY at Buffalo in January 2015 to establish The RENEW Institute¹ and has served as Institute Director since 2015. One of the most expansive initiatives launched by SUNY-Buffalo in recent years, RENEW (Research and Education in eNergy, Environment and Water) is in multidisciplinary, university-wide institute that harnesses the expertise of more than 100 faculty members across seven schools and colleges and will hire 20 more faculty. RENEW brings together researchers from across the university to address society’s toughest challenges and carry out transformative educational, research, creative and community engagement activities. It is a university-wide, interdisciplinary research institute that focuses on complex energy and environmental issues, as well as the human, social and economic issues with which they are connected. The Director position was a senior UB Leadership search². It cuts across seven schools and colleges including the School of Architecture and Planning, College of Arts and Sciences, School of Engineering and Applied Sciences, Law School, School of Management and School of Public Health and Health Professions and the School of Medicine and Biomedical Sciences. The RENEW Institute is positioned to promote convergent research by integrating knowledge, methods, and expertise across these seven diverse schools and colleges with numerous academic and scientific disciplines to catalyze scientific discovery and innovation. The research positioning of the Institute spans a significant portion of the university’s research portfolio. The Institute has attracted 18 new, interdisciplinary faculty, with specific area of expertise targeted to fill technical gaps identified during the Institute’s strategic planning. The Institute has also attracted 5 outstanding senior research scientists. The Institute has directly or indirectly helped the development and submission of over 250 external research grant proposals, and directly or indirectly enabled the publication of over 400 publications and over 300 presentations. The Institute has directly or indirectly resulted in garnering over $29 Million in external funds. The Institute’s external engagement includes a sponsored project of ~ $2 Million with the City of Buffalo, ongoing corporate interactions, and collaborations with international universities. The Institute’s international engagement includes interactions with institutions in several countries. Further details about the Institute and its programs can be found at http://www.buffalo.edu/renew.html.

Dr. Goyal concurrently holds the title of SUNY Distinguished Professor and SUNY Empire Innovation Professor at the University. He is also the President & CEO of TapeSolar Inc., a private-equity funded company and also the President & CEO of TexMat LLC, an IP holding and consulting company. He is an Emeritus Corporate Fellow at UT-Battelle/Oak Ridge National Laboratory (ORNL). Previously, until end of December-2014, he was a Corporate Fellow and Distinguished Scientist at UT-Battelle/Oak Ridge National Laboratory. He also served as was the Chair of the UT-Battelle/ORNL Corporate Fellows Council that advised ORNL senior management on scientific and technological issues and opportunities. He is also a Battelle Distinguished Inventor.

¹ RENEW is a multidisciplinary institute at UB involving seven schools and colleges.
² The RENEW Director was senior UB leadership search (http://www.buffalo.edu/leadership-searches.html).
Dr. Goyal has over twenty-five years project management and administrative experience as principal investigator in managing technical projects of a diverse nature and involving multiple organizations. He also has experience as President & CEO and financial head as well as experience in interacting with private equity firms such as venture capital firms and angel investors.

Dr. Goyal has developed clean energy technologies for over two decades. He has authored more than 350 technical publications and has 88 issued patents comprising 70 US and 18 International patents, and over 20 patents pending. He was the most cited author worldwide in the field of high-temperature superconductivity from 1999-2009. Over the years, he has received more than $40M in research funds.

He has received numerous accolades including the presidential level DOE’s E. O. Lawrence Award in the inaugural category of Energy Science & Innovation. The US Department of Energy (DOE) Secretary on behalf of the President of the United States bestows the award. Other key honors include: TEN R&D 100 awards which are widely regarded as the “Oscars for Innovation” over the years (in 2017, 2016, 2013, 2012, 2011, two in 2010, 2009, 2007, 1999); Three National Federal Laboratory Consortium (FLC) Awards for Technology Transfer signifying passion for innovation and translation to industry; the 2012 World Technology Award in the category of “Materials”; 2010 R&D 100 Magazine’s Innovator of the Year Award; 2010 Distinguished Alumnus Award from the Indian Institute of Technology; the 2008 Nano50™ Innovator Award; the 2007 Pride of India Gold Award; University of Rochester’s Distinguished Scholar Medal in 2007; the U.S. Department of Energy Exceptional Accomplishment Award in 2005; the UT-Battelle Inventor-of-the-Year Awards in 2005 and 1999; the 2005 Global Indus Technovator Award; in 2001 the Energy-100 Award for the finest 100 scientific accomplishments of the U.S. Department of Energy since it opened its doors in 1977; the Massachusetts Institute of Technology’s Technical Review TR100 Award; and the Lockheed-Martin NOVA Award for technical achievement in 1999.

Most recently, in 2019 he was awarded the UB President’s Medal, first presented in 1990, recognizes “Outstanding scholarly or artistic achievements, humanitarian acts, contributions of time or treasure, exemplary leadership or any other major contribution to the development of the University at Buffalo and the quality of life in the UB community.” This is the one of the highest recognitions given at the university.

He is a Member of the National Academy of Engineering (NAE) and the National Academy of Inventors (NAI). He has been elected Fellow of eight professional societies: the American Association for Advancement of Science, the Materials Research Society, the American Physical Society, the World Innovation Foundation, the American Society of Metals, the Institute of Physics, the American Ceramic Society and the World Technology Network.

He serves on the National Academies Panel for reviewing the NIST Materials Measurement Laboratory, the National Academies Panel on reviewing the U.S. Army Research Laboratory in the area of Materials Science, the Fellows Advisory Committee, National Academy of Inventors (NAI), Scientific Advisory Board, Center for Nanomaterials at Argonne National Laboratory, Board of Governors for the New York Sea Grant and is a member of the National Academies Intelligence Science and Technology Experts Group. He has just been appointed to the National Academies, National Materials & Manufacturing Board (NMMB). The NMMB provides objective, independent assessments of the current state of materials and manufacturing research- including at the atomic, molecular, and nano scales - and the applications of new and existing materials in innovative ways, including pilot-scale and large-scale manufacturing, the design of new devices, and disposal.

Dr. Goyal received a B.Tech.(Honors) in Metallurgical Engineering from the Indian Institute of Technology, Kharagpur (India), a MS in Mechanical and Aerospace Engineering from the University of Rochester, NY and a PhD in Materials Science & Engineering from the University of Rochester, NY, Executive Business training from the Sloan School of Management, MIT and an Executive MBA from Purdue University and an International Executive MBA from Tilburg University (The Netherlands).