

NORTH CAROLINA STATE UNIVERSITY

John Gilligan

Department of Nuclear Engineering — Professor and Executive Associate
Dean

Nuclear Energy University Program — Director

Dr. John G. Gilligan is professor of nuclear engineering at North Carolina State University and the first and current director of the Nuclear Energy University Program (NEUP) for the U.S. Department of Energy. The NEUP competitively awards contracts to universities to conduct research in support of the development of commercial nuclear energy. In the most recent year, awards were made at the level of about \$60 million to over 70 universities and included equipment grants and support for university nuclear reactors and students.

Gilligan is the former vice chancellor for research and graduate studies at North Carolina State University. Previously Gilligan served at the dean level in the 9,000-student College of Engineering and also as interim university vice chancellor for Extension and Engagement.

Gilligan has taught a wide range of courses including nuclear reactor theory, reactor heat transfer, thermodynamics, reactor systems, plasma physics and nuclear fusion at both the undergraduate and graduate levels. He has authored over 110 peer reviewed publications in areas such as high-power density plasmas and launchers, plasma-material interactions, nuclear systems, nuclear fusion, computational transport methods and engineering education. Gilligan has edited and published the Nuclear Science and Engineering Education Sourcebook since 1986 on behalf of the American Nuclear Society and the Department of Energy, and has sat on a number of external boards including the American Society for Engineering Education, UT-Battelle (Oak Ridge National Lab), Battelle Energy Associates (Idaho National Lab), the National Institute for Aerospace, and the Research Triangle Institute-International. He is also the founding and current chair of the Education Council for the \$125 million, DOE Nuclear Modeling and Simulation Hub for the Design of Light Water Reactors (CASL).

He has served on the faculty at the University of Illinois, and held research positions at Princeton University and Argonne National Laboratory. Gilligan has held leadership posts in the American Nuclear Society and the American Society of Engineering Education. He has been awarded the Alcoa Foundation Engineering Research Achievement Award and has numerous invited lectures at universities and conferences to his credit.

Education

Ph.D., Nuclear Engineering, University of Michigan

Master of Science, Nuclear Engineering, University of Michigan

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