

Braden Goddard, Ph.D.

Associate Professor, Department of Mechanical and Nuclear Engineering at VCU College of Engineering

Engineering East Hall, Room E3255, Richmond, VA, US

Professor Goddard is a nuclear engineer specializing in nuclear security and nonproliferation.

Biography

I have a diverse background having worked both domestically and internationally in academia, industry, and at national laboratories. These experiences allow me to bring domestic and global perspective to my research and teaching to be impactful on the state, national, and world stage. I have a proven track record of establishing externally funded research programs as seen from the 13 grants I received in the last 5 years that brought \$4,824,622 into my research group and \$9,154,162 to all collaborators on these grants. I have taught a total of 22 courses with 14 of them being different. Of these 14 different courses, 7 of them I created or significantly enhanced from existing courses. My teaching experience spans nearly every type of course format, allowing me to adapt my teaching in an ever-transforming educational system. Research and Teaching Highlights ? \$4,824,622 in research funding (\$9,154,162 among all co-PIs) ? Published 35 journal articles, 73 conference papers, and 58 invited talks ? h-index = 8, 291 citations (Google Scholar) ? Diverse publication in 16 different journals ? Organized 8 different international workshops ? Directly supervised 5 Ph.D. and 5 M.S. students ? 22 courses taught with 14 of them being different ? Created or significantly modified 7 courses ? Taught (lecture, lab, online, hybrid, undergrad, grad, study abroad, honors, mixed STEM and non-STEM students, etc.) ? High teaching evaluations (3.29 ? 4.90), average of 4.25 out of 5.00

Industry Expertise

Research, Education/Learning, Nuclear, Security

Areas of Expertise

Nuclear security and counter terrorism, Nonproliferation and international safeguards, Radiation detection and measurements, Environmental measurements and assay

Affiliations

Institute of Nuclear Materials Management (INMM), World Institute for Nuclear Security (WINS), American Nuclear Society (ANS)

Education

Texas A&M University

Ph.D. Nuclear Engineering

Texas A&M University
M.S. Nuclear Engineering

Texas A&M University
B.S. Nuclear Engineering

Accomplishments

World Nuclear University Mentor

Mentored 70 of the best nuclear long professionals from across the globe during the summer of 2022.

Created the radiation emergency response reachback program

United Arab Emirates

Strong involvement in professional nuclear societies

ANS, INMM, and WINS

Broad experience in the nuclear field

Industry, national laboratories, and academia

International work experience

United States, United Arab Emirates, and Japan

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