



VANDERBILT  
UNIVERSITY

# Nuclear Environmental Engineering

Master's Program and Ph.D. Track within Environmental Engineering

Strong Core Classes + World Renowned Research

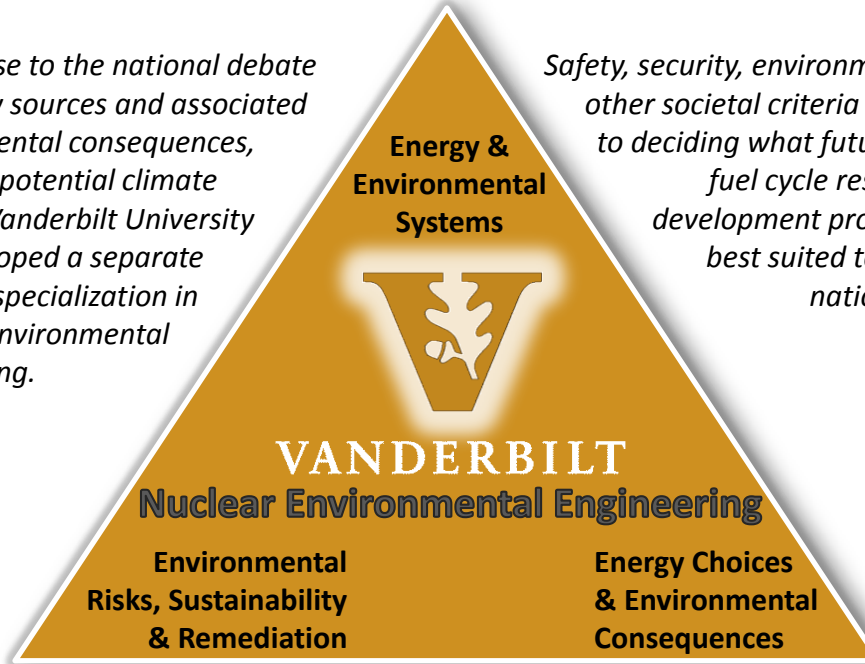


*In response to the national debate on energy sources and associated environmental consequences, including potential climate change, Vanderbilt University has developed a separate research specialization in Nuclear Environmental Engineering.*

**Steve Krahn, DPA**

Co-Director & Professor of the Practice of Nuclear Environmental Engineering

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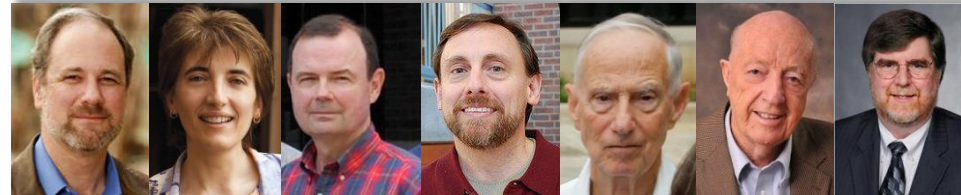
*Safety, security, environmental, and other societal criteria are critical to deciding what future nuclear fuel cycle research and development programs are best suited to meet the nation's needs.*



**Jim Clarke, Ph.D.**

Co-Director & Professor of the Practice of Nuclear Environmental Engineering

james.h.clarke@vanderbilt.edu



**Spotlight on Faculty**

Left to right: **David Kosson** (Cornelius Vanderbilt Professor of Engineering and PI for the VU-led Multi-University Consortium for Risk Evaluation with Stakeholder Participation<sup>1</sup> [CRESP]), **Florence Sanchez** (VU Associate Professor) **Allen Croff** (VU Adjunct Faculty), **Kevin Brown** (VU Sr. Research Scientist), **Ray Wymer** (VU Adjunct Faculty), **John Garrick** (VU Adjunct Faculty), and **Michael Ryan** (VU Adjunct Faculty)

**Spotlight on Staff & Graduate Students**

Left to right: **Bethany Burkhardt** (Research Engineer; Research Staff: Comparative Environmental Impacts of Nuclear Fuel Cycles); **Joe Rustick** (LLW Performance Assessments), **Lyndsey Fyffe** (Chemical Safety & Relevant Guidance for Nuclear Chemical Facilities), **Tim Ault** (Comparative Environmental Impacts of Thorium Nuclear Fuel Cycles), **Janelle Branch** (Performance of Cementitious Barriers for Nuclear Waste), **Andrea Gardiner** (Decision Analysis of Nuclear Fuel Cycle Options), & **Yonathan Reches** (Advanced Concrete Technology for Nuclear Waste)



For more information and to apply: <http://engineering.vanderbilt.edu/cee/GraduateStudy/EnvironmentalEngineering/nuclear-env-engr/index.php>

<sup>1</sup> DOE-Office of Environmental Management supports CRESP presently, see [www.CRESP.org](http://www.CRESP.org) for more information

## **Important Deadlines: December 15, 2015: Deadline for Fall 2016 Admissions**

Exams: Applicants should take exams (GRE, GRE Subject, TOEFL, IELTS) no later than November in order to have scores for Fall admissions deadlines.  
Decisions: (Admissions decisions 3/31/2016; Response to admission offers 4/15/2016)

## **Application Requirements (FREE ONLINE APPLICATION!)**

### **Graduate Record Exam (GRE)**

- The Vanderbilt Institution Code is **1871**. A department code is not necessary. Visit <http://www.ets.org/gre> for information concerning the GRE and how to send your scores to Vanderbilt. You may self-report your GRE scores on your application. If you are admitted, official scores must be submitted before registration.

### **Language Proficiency Exam (TOEFL or IELTS)**

- Applicants whose native language is not English must present the results of the Test of English as a Foreign Language (TOEFL) or International English Language Testing Service (IELTS) with the application. This requirement may be waived if you have earned a degree from an English-speaking institution. Please contact your program of interest to confirm.
- International students transferring from unfinished degree programs of other universities in the United States should present TOEFL or IELTS scores.
- The TOEFL and IELTS are administered at test centers throughout the world at different times during the year. You may access information regarding the TOEFL or IELTS exam, including registration and sample tests, at [ets.org/toefl](http://ets.org/toefl) or <http://www.ielts.org>.
- The Vanderbilt Institution Code for TOEFL is 1871.
- The minimum acceptable score on the paper-based TOEFL is 570, and for the Internet-based test, 88. Many programs, however, require a considerably higher level of proficiency.
- For IELTS, the minimum acceptable score will vary by program. In many cases, a score of at least 7.0 is desirable. Please contact your program of interest to confirm.

### **Transcripts**

- Applicants must upload an unofficial copy of transcripts from prior undergraduate and graduate work as part of their online application for admission. Official transcripts are required only after an offer of admission is made and accepted.
- To be considered official, a transcript must be sent directly from your institution to Vanderbilt. Official transcripts can be mailed to Vanderbilt at the address below or delivered through your school's secure electronic service. All other transcripts are considered unofficial. Please do NOT mail transcripts to the department office or Graduate School.

### **Statement of Purpose**

- The Statement of Purpose is an essay about why you are applying to the program you have selected.
- Your statement should include information on your motivation to pursue a degree in the program, what you have done to prepare yourself for the pursuit of this degree, and what you hope to accomplish during and after your training.
- Some programs have more specific requirements for the statement of purpose. These requirements will be listed on the Statement of Purpose page of the application.
- There is not a minimum or a maximum number of words required for the Statement of Purpose. In general the statement should be somewhere between 1-5 pages and only contain information pertinent to the application you are submitting.

### **Letters of Recommendation**

- Make sure that your recommenders know you well enough to sell the "you" that exists beyond what your scores and grades might tell us. These letters should tell us information that cannot be gleaned by looking at other pieces of your application.
- The preferred method for receiving recommendations is through the online process. The recommender's URL contains a short recommendation form that is only available online. After filling out this short form, the recommender can upload a recommendation letter. You can submit your application before we receive your recommendation letters.
- If your recommender has some impediment to using the online process, and you feel strongly about using this recommender, a recommendation letter may be mailed or emailed, but your recommender will not be able to submit the recommendation form. Paper recommendation letters must contain your full name and the name of the program to which you are applying. They should be emailed or mailed to an address below.
  - Email: [CDM@vanderbilt.edu](mailto:CDM@vanderbilt.edu)
  - Mail:  
Center for Data Management  
Vanderbilt University  
PMB 407833, 2301 Vanderbilt Place  
Nashville, TN 37240-7833

## **Admissions website**

- <http://gradschool.vanderbilt.edu/admissions/index.php>
- [http://gradschool.vanderbilt.edu/admissions/dates\\_and\\_deadlines.php](http://gradschool.vanderbilt.edu/admissions/dates_and_deadlines.php)
- [http://engineering.vanderbilt.edu/cee/GraduateStudy/Graduate\\_FAQs.php](http://engineering.vanderbilt.edu/cee/GraduateStudy/Graduate_FAQs.php)

## **Contact Information:**

Jim Clarke: Environmental Engineering Director of Graduate Studies [James.H.Clarke@vanderbilt.edu]

Karen Fuller: Civil & Environmental Engineering Department Graduate Program Coordinator [Karen.Fuller@vanderbilt.edu]

Steve Krahn: Director of the Nuclear Environmental Engineering Research Group [Steve.Krahn@vanderbilt.edu]

Bethany Burkhardt: Research Engineer within the Nuclear Environmental Engineering Research Group [Bethany.L.Burkhardt@vanderbilt.edu]