



**WILLIAM & MARY**

CHARTERED 1693

DEPARTMENT OF CHEMISTRY

M.S. in Chemistry

M.S. in Environmental Chemistry

Combined M.S. in Chemistry/Ph.D. in Applied Science

M.A. in Chemistry



### PROGRAM STRUCTURE

- Base financial aid package: \$21,327 + full tuition for applicants meeting faculty research needs
- Year-round hybrid Graduate Teaching and Research Assistantships
- MS degree candidates paired with committed faculty research advisor upon admission
- Flexible curriculum with option to take classes in a variety of science disciplines; Five academic classes required for applicants with an undergraduate Chemistry major
- Typically less than 24 months to degree



### OTHER PROGRAM HIGHLIGHTS

- Outstanding record of placing MS degree recipients in highly ranked PhD programs and industrial positions
- Excellent infrastructure for research, including a wide range of instrumentation
- Supplemental fellowships available for exceptional applicants
- Strong department research culture sustained by fourteen faculty with diverse interests



### APPLICATION DEADLINES

February 15 to be considered for fullest consideration and for supplemental fellowships

April 1 for base financial aid package

[www.wm.edu/as/chemistry](http://www.wm.edu/as/chemistry)

DIRECTOR OF GRADUATE STUDIES

Professor Bill McNamara

chemistry@wm.edu • 757-221-2540

## TOP THREE REASONS TO PURSUE AN MS CHEMISTRY DEGREE



**WILLIAM & MARY**

### EXCITING RESEARCH

Fifteen faculty programs across the  
subdisciplines of Chemistry

### ADVANCE PROFESSIONALLY

Gain more insight into your  
long-term professional interests;  
Enhance competitiveness for PhD  
programs and employment

### GAIN INDEPENDENCE

Attractive hybrid TA/RA financial  
aid package

## FACULTY RESEARCH INTERESTS



### CHRISTOPHER ABELT

*Physical Organic*

Fluorescent chemosensors of microacidity and micropolarity



### DEBORAH BEBOUT

*Bioinorganic*

*In vitro* approaches to understanding the biochemistry of Zn(II), Cd(II) & Hg(II).



### RANDOLPH COLEMAN

*In silico Biochemistry*

Computational studies of pathogenesis.



### ELIZABETH HARBRON

*Physical Organic*

Photochromic conjugated polymer systems for fluorescence intensity modulation.



### ROBERT HINKLE

*Synthetic & Physical Organic*  
*Department Chair*

Lewis and Brønsted acid mediated cyclization reactions toward heterocycles.



### NATHAN KIDWELL

*Physical*

Photoinitiated chemical reactions in the atmosphere using laser-based methods; dynamics of gas phase species.



### LISA LANDINO

*Biochemistry*

Oxidative damage to proteins, and its role in neurodegeneration and aging.



### WILLIAM MCNAMARA

*Inorganic*

Artificial photosynthesis; electrocatalysts for H<sup>+</sup> reduction.



### TYLER MELDRUM

*Physical*

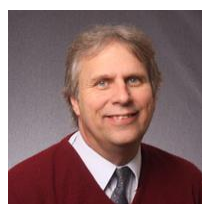
Observing physical changes in chemical systems with NMR.



### RACHEL O'BRIEN

*Environmental Analytical*

Mass spectrometry, atmospheric chemistry, secondary organic aerosols, analysis of complex organic mixtures.



### ROBERT PIKE

*Director of Graduate Studies*

*Inorganic & Crystallography*

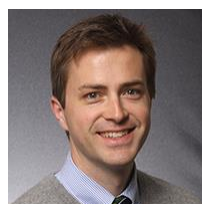
Metal-organic polymers; responsive materials; X-ray crystallography.



### JOHN POUTSMA

*Physical Analytical*

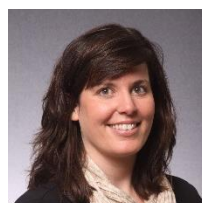
Mass spectrometry, proteomics, ion spectroscopy, and gas phase ion chemistry.



### JONATHAN SCHEERER

*Synthetic Organic*

Synthesis & biosynthesis of biologically active polycyclic natural products.



### KRISTIN WUSTHOLZ

*Physical*

Applications of laser spectroscopy to solar energy and art conservation.



### DOUGLAS YOUNG

*Bioorganic*

New tools for molecular biology; microRNA therapeutics; new unnatural amino acids for addressing biological problems.

