

RIT Chemistry MS Degree



Who is RIT SCMS

- **16 research active tenure track faculty members**
- **New head of department: Dr. Michael Heagy**
- **Currently 14 masters students and 4 BS/MS students**
- **Dr. Nathan Eddingsaas**
- **Current graduate students**

Quick overview

- **Typically a two year program (30 credits)**
- **Two tracts: Thesis and project**
 - Thesis: fewer classes substantially more research (10 credits) and written thesis
 - Project: more classes, less emphasis on research (1 or 4 credits)
- **Most gain teaching experience**

Why choose RIT

- **Great faculty and research projects.**
- **Hands on experience with many state-of-the-art chemical instrumentation.**
- **Obtain valuable teaching experience.**
- **Atmosphere where we are looking and helping you succeed.**

Instrumentation

- **Two newly renovated instrumentation labs**
- **Research grade state-of-the-art equipment**
- **Students get trained on and operate any and all instruments**
- **<https://www.rit.edu/science/chemical-analysis-laboratory>**

Where to find information

- **Of program:** <https://www.rit.edu/study/chemistry-ms>
- **Handbook:** <https://www.rit.edu/science/college-science-student-handbooks>

Overview

Cooperative Education

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Curriculum

Admission Requirements

Faculty

Research

Events

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Admissions Contact

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Program Contact

Nathan Eddingsaas, Associate Professor
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Overview

A chemistry master's degree that prepares you for jobs in countless industries and for Ph.D. programs in chemistry. Maximize your career potential by gaining skills that are transferable to any field of interest.

With a chemistry master's degree, you'll be able to solve scientific problems with agility and accuracy. Conduct research specific to your field of interest as you develop skills that translate to infinite career opportunities. With an emphasis on leadership, many graduates excel in leadership positions in dynamic fields such as sustainability, public policy, lobbying, sales, government, imaging science, space exploration, medicine, and much more.

[Read More](#) ▾



Join us virtually

Discover how graduate study can further your academic research interests, career objectives, and more.

Thursday, October 29, 2020 8-9 a.m. EDT

[Register](#) >

Industries



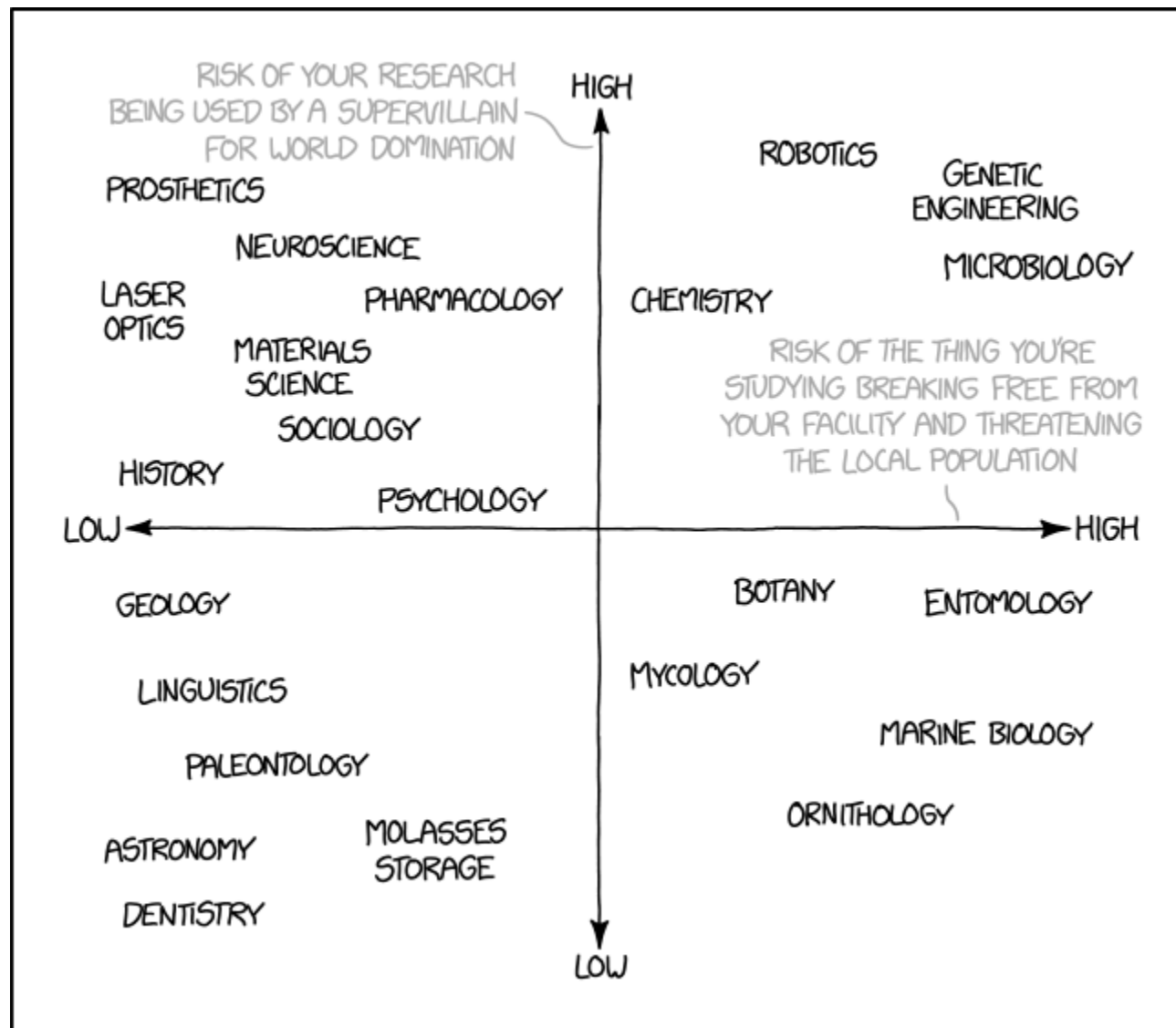
To apply

- Complete an RIT graduate application (Link on chemistry-ms page)
- Degree in chemistry or related field with applicable course work
- Official transcripts
- GRE – general required, chemistry encouraged
- Two letters of recommendation
- International students also need TOEFL, IELTS, or PTE

What will make you stand out

- **Undergraduate research experience.**
- **Indication in application that you have looked at the research being done in the department.**
- **Strong letters of recommendation and personal statement that can speak about your research potential and desire to continue your education.**

Research

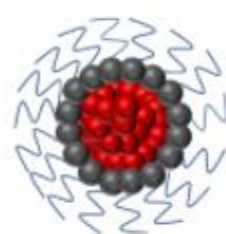
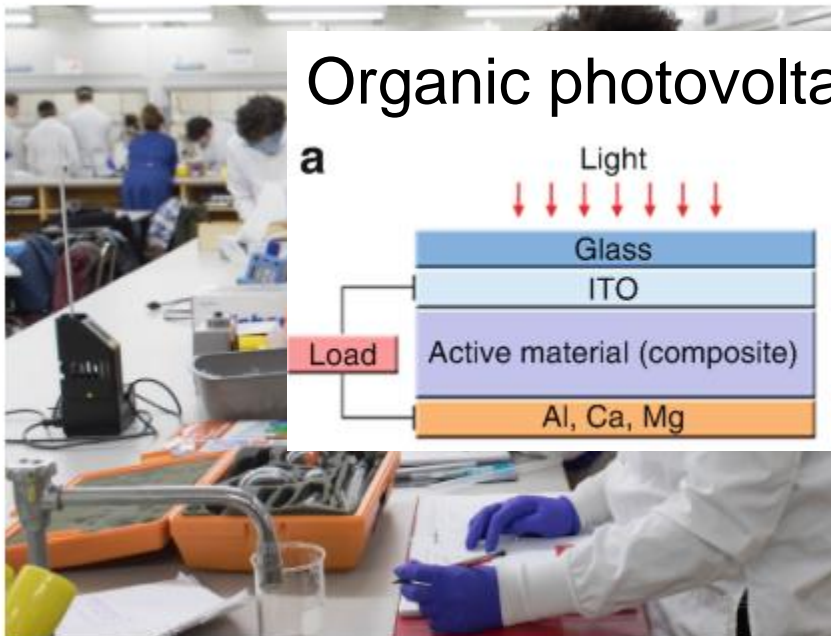


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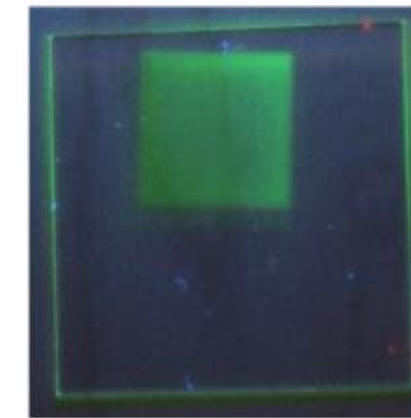
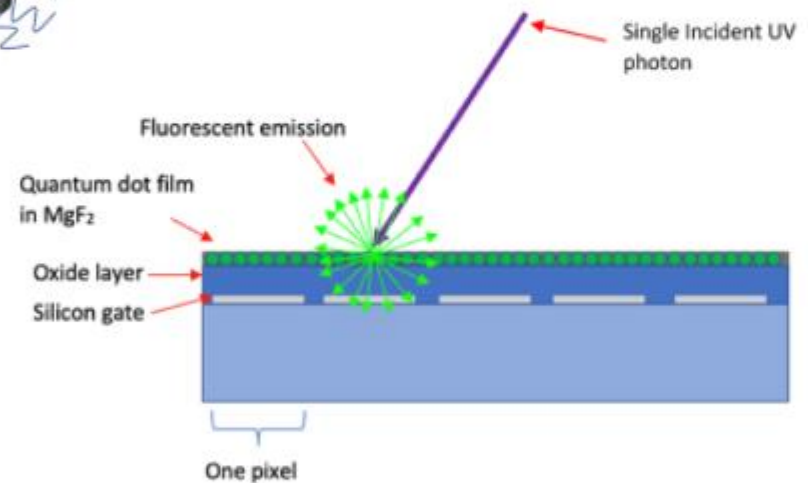
Active Glass Filters

The research

Chemistry Education Re



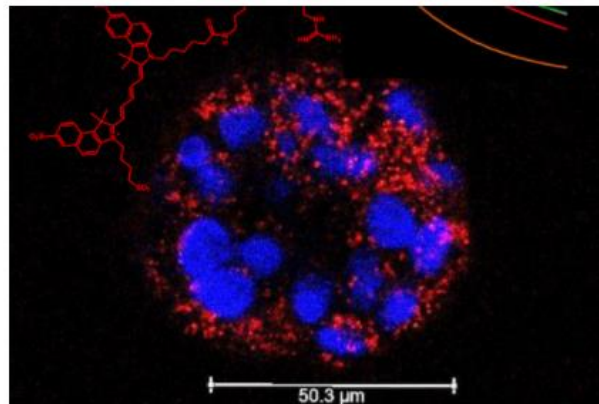
● CdSe
● ZnS
~ Organic ligand



REActivities
Reformed Experimental Activities

Incorporating quantum dots in a Magnesium Fluoride matrix to enable deep-UV sensitivity for standard silicon based imaging detectors
Alexander Knowles; Scott Williams; Zoran Ninkov; Ross Robinson; Suraj Bhaskaran
 Proceedings Volume 10982, Micro- and Nanotechnology Sensors, Systems, and Applications XI; 1098234 (2019)
<https://doi.org/10.1117/12.2517865>
 Event: SPIE Defense + Commercial Sensing, 2019, Baltimore, Maryland, United States

More projects as discussed by current students



New synthetic approaches to targeted molecular imaging agents (TMIAs)

We are designing and synthesizing targeted imaging agents for fluorescence and photoacoustic imaging (dyes), MRI (chelated metals such as gadolinium), and PET (chelated metals such as Ga and Cu).



New targeted imaging agents for detecting breast cancer

In collaboration with Dr. Maureen Ferran (GSOLS at RIT) we are testing targeted agents for triple negative breast cancer cells utilizing confocal fluorescence microscopy (CFM). We have excellent preliminary data in confocal fluorescence microscopy (CFM) and will be applying for grants in this area soon!



Studying the Side Effects of Vaping and E-Cigarettes [↗](#)

The American Society of Mechanical Engineers features Risa Robinson, department head, mechanical engineering.



How a person vapes, not just what a person vapes, could also play a big role in vaping harm [↗](#)

Essay by Risa Robinson, professor and department chair, mechanical engineering, published by *The Conversation*.

What do RIT MS students plan to do

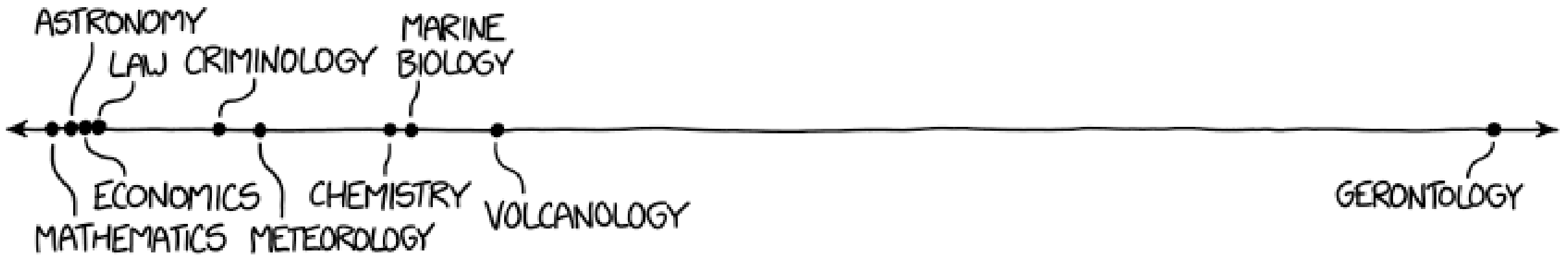
What RIT MS alumni have gone on to do

- **Industry**
- **Government**
- **PhD**

PROBABILITY THAT YOU'LL BE KILLED BY THE THING YOU STUDY

BY FIELD

MORE LIKELY
→



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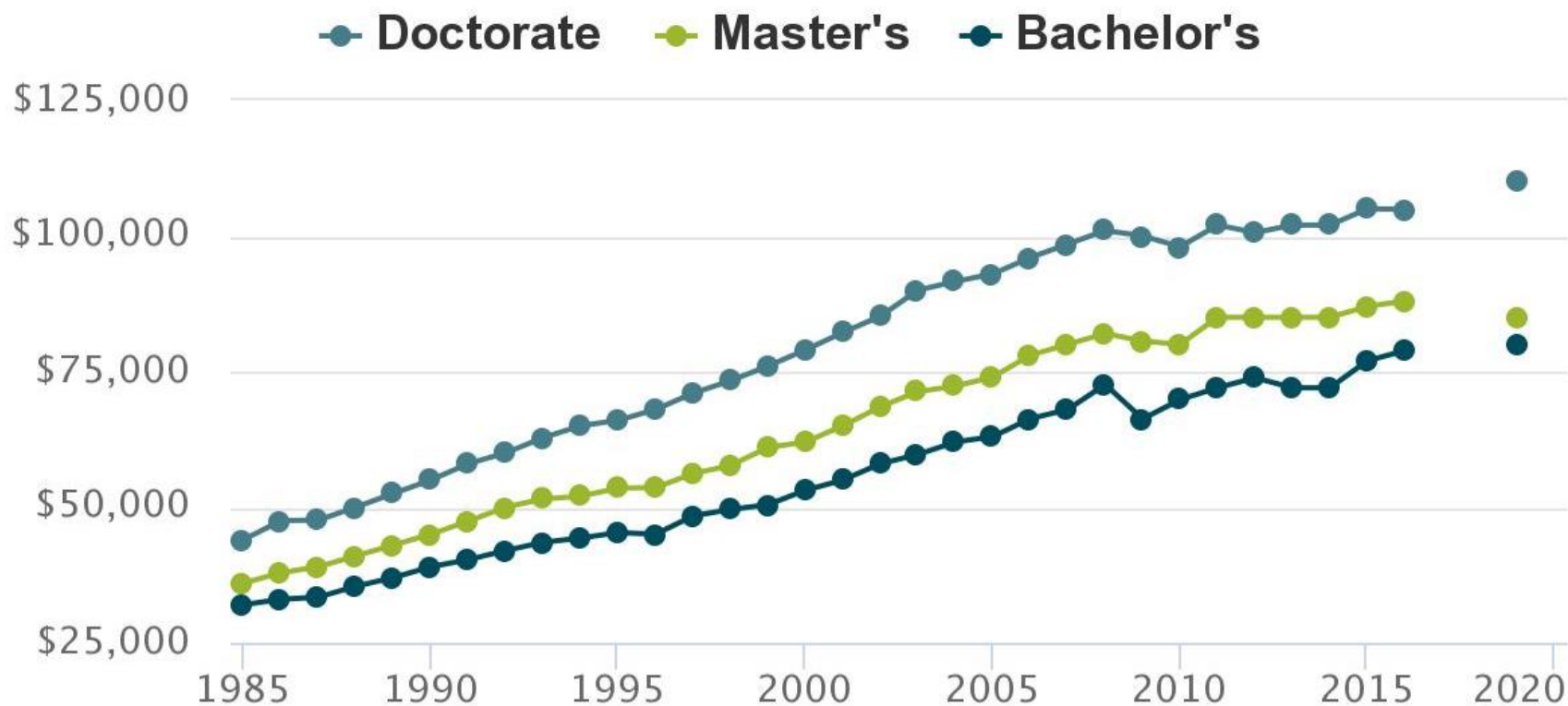


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Thank you!

Any Questions?

Chemistry Salary



C&E News