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

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.

Join us virtually

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

Thursday, October 28, 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.
The research
Chemistry Education Re

Organic photovolta

Active Glass Filters

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
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 (CMF) 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

ASTRONOMY
LAW CRIMINOLOGY
MARINE BIOLOGY
ECONOMICS CHEMISTRY VOLCANOLOGY
MATHEMATICS METEOROLOGY

GERONTOLOGY

XKCD
I'M THE AVATAR, MASTER OF ALL FOUR ELEMENTS!

REALLY? I'M MENDELEEV, MASTER OF ALL 118+

Swoosh

That was polonium-bending.

You probably didn't feel anything, but the symptoms of radiation poisoning will set in shortly.

XKCD
Thank you!
Any Questions?
Chemistry Salary