

WELCOME!

MS, Environmental, Health and & Safety Management (EHSM) Open House



Your Presenters:

Joe Rosenbeck: Professor and Graduate Program Director,
EHSM

Paola Pena Rodriguez: Assistant Director, Office of Graduate
and Part-Time Enrollment Services

RIT

College of Engineering Technology
Department of Civil Engineering Technology,
Environmental Management and Safety

What is EHS Management?

- National Association for Environmental, Health, Safety, and Sustainability (EHS&S) Management (NAEM)

<https://www.naem.org/about/ehs>

- *Environmental health and safety (EHS) jobs will grow 8% by 2030, outpacing overall labor market growth.*
- *EHS Management students develop leading edge expertise and skills necessary to excel in this rapidly growing field and that is why there are currently more employers trying to hire our EHS Management graduates than there are students available.*

So, what makes us different?



Forbes Magazine ranks Environmental Studies as among the worst majors for getting a job!!!

- *Professors*
- *Curriculum*
- *Student Body*
- *Cooperative Education*
- *Results*



So, what makes us different?

Our Professors and Advisors

Professors and Advisors

Every professor in the ESHS department has had a 10 year or longer professional career in the environmental or health & safety field before coming to teach at RIT.

At ESHM your advisors will know your name! You'll meet and get help with scheduling.

How does that help you?

- We teach you from a real world perspective
- We have contacts and can help you find a great co-op- connect to me on LinkedIn
- Advisors and professors will know you by name



MS EHS Management

- Program Mission

Prepare traditional local and online students to develop and implement their organization's environmental, health and safety management systems that can lead organizations toward sustainability by providing them with environmental, health and safety management systems knowledge, strategies and tools.

- *Students learn to create effective integrated environmental, health and safety management systems that conform to national and international consensus standards.*
- *Students learn to identify and manage EHS risk as well as strategies and tools for integrating EHS into the business to drive EHS and sustainability performance.*

MS EHS Management

- Program History
 - Program started in 1997. First EHS Mgmt. MS degree in the country.
 - BS/MS- 2006
- Program may be completed via:
 - Online courses tuition discount (~43% for fully online students)
 - On-Campus- Combination of local and online courses

MS EHS Management- 30 hrs.

Curriculum

Core- 18 hrs.

- GRCS-701 Research Meth.
- ESHS-720 EHS Mgmt.
- ESHS-740 EHS Systems Design
- ESHS-755 Corp. Social Resp.
- ESHS-760 Integrating EHS Mgmt.
- ESHS-780 EHS Internal Auditing

Professional Electives- 6 hrs

Exit Strategy- 6 hrs.- Option

Graduate Project

- Graduate Project- 3 hrs.
- Professional Elective- 3 hrs.

Comprehensive Exam

- Comp. Exam- 0 hrs.
- Professional Elective- 6 hrs.

Thesis

- Prin. Research Comm.- 3 hrs.
- Thesis- 3 hrs.

MS EHS Management

Approved Professional Electives

- ESHS 601 Fire Protection
- ESHS 611 Occupational Health
- ESHS 613 Sol. and Haz. Waste Mgmt.
- ESHS 614 Ind. Wastewater Mgmt.
- ESHS 615 Air Emissions Mgmt.
- ESHS 620 Occupational Safety
- ESHS 630 Elect. & Mech. Controls
- ESHS 665 Sustainable Prod. Stewardship (New)
- ESHS 722 EHS Law
- ESHS 770 Risk Assessment, Mgmt. & Comm.
- ACCT 603 Accounting for Decision Makers
- ACCT 801 Accounting and Organizational Goals
- DECS 810 Statistical Analysis for Manager
- BUSI 710-Project Management
- BUSI 721-Leading and Developing Teams
- BUSI 711 Advanced Project Management
- BUSI 712 International Project Management
- EDLI 755 Learning Assessment and Evaluation
- HRDE 710 Found. in Human Resource Dev.
- HRDE 730 Theories of Learning
- HRDE 733 Instructional Design
- ISEE 682 Lean Six Sigma Fundamentals
- ISEE 703 Supply Chain Mgmt.
- MGMT 740 Org Behavior & Leadership
- MKTG 761 Marketing Concepts & Commercialization

Advisory Board Members

- Frances Cabrera- *Global Operational Governance Manager at Barclays*
- Enid Cardinal- *Senior Advisor to the President for Strategic Planning and Sustainability at RIT*
- Cynette Cavaliere, CHMM- *Sr. Sustainability Project Engineer at General*
- Trish Donohue- *Sr. Engineer & Sustainable Supply Chain Program Mgr, NYSP2I @ Golisano Institute for Sustainability @ RIT*
- Jennifer Doman- *ISO Management System Auditing Lead Auditor at Lawrence Livermore National Laboratory*
- Ashish Galhotra- *Global EHS Director at Sherwin-Williams*
- Jeff Hanratty, CSP, PE, CHMM, CPEA, CPSA- *Applied Sustainability Manager at General Mills*

Advisory Board Members

- Dawn Hess- *Director of Enterprise Risk Management & EHS At Finger Lakes Community College*
- Paulette Lantuh, CSP- *EHS Manager at Kodak Alaris*
- Mary McConnell-Meachen, CIH, CSP- *Executive Director Infrastructure, Safety, Environment & Engineering at Boehringer Ingelheim USA, Inc.*
- Brian Pintagro, CSP- *EHS Manager at Ortho Clinical Diagnostics*
- Robert (RJ) Pollard, CSP- *EHS Manager at Thermo Fisher Scientific*
- Matthew Twerdy, CSP, CHMM- *Associate Director, EHS at Collins Aerospace*
- Tom Wickerham- *Environmental Program Specialist II at NYS Dept. of Environmental Conservation*

*So, what makes us
different?*



COOPs

Naveida Huggins
BS/MS

Title: EHS Summer Co-op

Responsibilities:

- Risk Reduction Assessments
- LOTO procedures
- Performed Housekeeping Audits
- Established a PM for Critical-to-Environ. Equipment

Additional Highlights

- Completed the Voluntary Protection Program (VPP)
- Volunteer Initiative: Adopt a Beach and School Drive
- Hazardous Waste Management

Most Beneficial Courses

- Solid and Hazardous Waste Management
- Occupational Health



GE Aviation
Clearwater, FL

www.geaviation.com

Business: Small Avionic
manufacturing plant for
circuit boards.

Intern Wage: \$23/ Hr
Duration: 11 weeks



Environmental Intern

Joelle Marston



Black Hills Energy
Rapid City, SD

What they do: Utility company – electric & natural gas, transmission/distribution, generation, coal mining, wind power

Service territory covers 8 states

URL: www.blackhillsenergy.com



My Position

Hourly wage: \$20.00/hr

Benefits: 401k contributions

Supervisor: Shannon Pollmiller,
Environmental Professional II

Responsibilities:

- Attend department meetings
- Create file system design
- Assist supervisor (various tasks)



Projects

- Transition to new content management system
- Develop SWPPP
- BHEnviro365
- Avian Protection annual report
- Environmental audits
- Write procedures for new content management system
- Environmental training

Helpful courses: EHS Communications, Corporate EHS Mgmt, Geology, Hydrology, Ind. Wastewater Mgmt, Env. Sustainability & Social Resp., EHS Law, Solid and Hazardous Waste Mgmt, Air Emissions Mgmt, and Sustainable Development



L3HARRIS™
FAST. FORWARD.

Blake Paskill, EH&S Intern

Location: Philadelphia, PA

<https://www.l3harris.com/>

Main Products/Services

- This site of L3Harris manufactures electronic equipment for naval ships such as switches, breakers, and subassemblies. This includes welding, electrical work, assembly, and electrical testing done on site.

Hourly Wage: \$21.50

Benefits: Steel Toed Boots Stipend (\$125)

Position Responsibilities and Projects:

- Creating chemical inventory and ensuring Hazardous Waste Program is up to date and the 180 Day Accumulation Area is compliant with all applicable regulations.
- Recording and tracking near misses and concern reports in an action tracker and making sure that work orders and proper discussions are done as a follow-up. In the event of an injury, I assist in the injury investigation and determine if the incident is OSHA recordable and also follow up on corrective actions to prevent accidents in the future.
- Establishing and maintaining COVID-19 measures and participating in weekly COVID audits with upper management to ensure safe practices are in place throughout the building. This includes creating a seating chart for conference rooms and other public spaces, taking inventory of COVID supplies, hanging proper signage, and marking 6ft distances on workstations and high traffic areas.

Most helpful ESHS Courses

- Occupational Safety
- Solid and Hazardous Waste Management
- Environmental Monitor and Measure I & II





Employer: John Deere

Location: Moline, Il

Web: <https://www.deere.com/en/index.html>

Products/Services: Manufactures agricultural, construction, and forestry machinery, diesel engines, drivetrains used in heavy equipment and lawn care equipment and lawn care equipment

Unit 90/NAPDC Role: Corporate Headquarters and North American Parts Distribution Center

About Me:

Name: Tom Saile

Job Title: Occupational Safety Intern

Hourly Wage: 23.94\$

Benefits: Free Swag, Housing Provided, Travel Reimbursements

Helpful ESHS Classes: Occ Safety, Occ Health, ESHS Communications, Mechanical & Electrical Safeguarding

Responsibilities & Projects

- Crane rigging procedure for safe lifting of high value parts
- Performed Cost Analysis of Replacing Safety Equipment Out of Compliance
- Risk Assessment and Risk Management Discussions
- Incident Investigations Related to Worker Compensation Claims
- Fall Protection Equipment Inspections



MS EHS Management- Outcomes and Student Success

- Graduation Rate: 95%
- Placement Rate: 100%

Environmental Sustainability. Health & Safety

graduates are employed at the following companies, universities, and government agencies improving the environment, protecting workers, and leading their organizations towards an environmentally sustainable future



RIT
Environmental,
Health & Safety
Management
Employers of
Recent Grads

RIT

College of Engineering Technology
Department of Civil Engineering Technology,
Environmental Management and Safety

MS EHS Management- Outcomes and Student Success

- 2018 AWMA/NYWEA Outstanding Environmental Management Student Awards (\$8k)
 - 6 students received scholarships
- Sarah Dobie- 2019 CET Graduate Delegate and RIT Graduate Delegate
- Lucas Barber
 - Winner of the National SES Student Scholarship- Society for Standards Professionals
 - Winner of the NYS SWANA 2019 Graduate Scholarship
- Naveida Huggins (BS/MS) named as a 2019 Legacy Leader (RIT Center for Women and Gender)

MS EHS Management- Outcomes and Student Success

- Robert Seeley- awarded 2019 ASSP Region VIII Empire Area Scholarship for \$1,000
- BS/MS Alumna Frances Cabrera- RIT CET Alumni Rising Star Award (spring 2019)
- Ameya Parkhi, Rose Louk and Lucas Barber -RIT team that took 2nd place in the 3rd annual American National Standards Institute's Standards Development Competition in Washington, D.C. (fall, 2018)
- Ryan McMullan- awarded 1st place RIT Honors Research Symposium (2018/19)

Program Admission Requirements:

- BS degree from accredited institution
 - 3.0 GPA
 - 9 credit hours of science with at least one course in each of the following areas:
 - Biology, Chemistry, Physics
 - International Students- English Language exam scores
 - EHS background
 - Work experience or coursework in:
 - Air emissions management
 - Wastewater management
 - Solid & hazardous waste management
 - Occupational safety
 - Occupational health
- * Those without the necessary backgrounds are required to take courses in these areas as professional electives

Questions, Comments, or Requests for Additional Information

We welcome and look forward to your questions.
Your questions will be answered by:

Joseph Rosenbeck, Professor, Program Director (jmrcem@rit.edu)- Curriculum, Co-op, or Academic Questions

OR

Paola Pena Rodriguez, Assistant Director, Office of Graduate and Part-Time Enrollment Services (paeges@rit.edu)- Admissions and Application Process

Program Info: <https://www.rit.edu/study/environmental-health-and-safety-management-ms>

LinkedIn Group; <https://www.linkedin.com/groups/4146019/>

Thank you for joining us!

ESHM Program Info: <https://www.rit.edu/study/environmental-health-and-safety-management-ms>

ESHM LinkedIn Group: <https://www.linkedin.com/groups/4146019/>

RIT Graduate Enrollment Services: <https://www.rit.edu/admissions/graduate>