Paper, Chemical, and Bioprocess Engineering Recruiters' Guide

2023-2024

Department of Chemical Engineering SUNY-ESF 315-470-6501

Syracuse Pulp and Paper Foundation

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State University of New York College of Environmental Science and Forestry

### Paper, Chemical, and Bioprocess Engineering

Recruiters' Guide

State University of New York

College of Environmental Science and Forestry

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Phone: 315-470-6501 Fax: 315-470-6945 Email: paper@esf.edu

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<u>Chair</u> Bandaru Ramarao

<u>Secretary</u> Barbara Scharf

> 26 June 2023 Gary M Scott

# **Department Profile**

#### Undergraduate Programs

- Bioprocess Engineering (BS)
- Paper Engineering (BS)
- Renewable Materials Science (BS)
- Chemical Engineering (BS)
- Bioprocess Science (Minor)
- Computer and Information Technology (Minor)
- Paper Science (Minor)

### Graduate programs

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- Paper and Bioprocess Engineering (MPS, MS, PhD)
  - Bioprocess Engineering (MPS, MS, PhD)
  - Paper Engineering (MPS, MS, PhD)
  - Biomaterial Engineering (MS, PhD)
  - o Sustainable Engineering Management (MPS)
    - Bioprocess Engineering
      - Paper Engineering
  - Wood Science (MPS, MS, PhD)
- Bioprocessing (Advanced Certificate)

#### Spring 2023 statistics

Undergraduate Students:	68	
% Female / % Male	59% / 41%	
% International	21%	
Mean Cumulative GPA	3.15	
Bioprocess Engineering	32	
Paper Engineering	24	
Renewable Materials Science	5	
Chemical Engineering	7	
Graduate Students:	28	
% Female / % Male	57% / 43%	
% International	79%	
Mean Cumulative GPA	3.79	
PhD	19	
MS	7	
MPS	2	
Certificate		
Faculty and Staff:		
Full-Time Faculty	9	
Part-Time Faculty	3	
Support Staff	6	

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# Introduction

Thank you for your interest in hiring students and graduates from the Department of Chemical Engineering (ChE) at the State University of New York—College of Environmental Science and Forestry (SUNY-ESF). We offer degrees at the Bachelors, Masters, and Ph.D. levels. The paper engineering, , renewable materials science, chemical engineering, and bioprocess engineering programs provide a broad base of study in the field of paper and bio-based products to prepare men and women for professional positions in the pulp, paper, chemical, bioproduct and other industries. This bio-based industry is the fifth largest in the nation and is very strong internationally. The college pioneered instruction for the pulp and paper industry in 1920 with the formation of a paper science and engineering faculty and program (then called pulp and paper manufacture) and has maintained a leading position in this area of professional education. Recently, the Faculty's pioneering efforts have led to new technologies in the biorefinery, biochemical, and bioprocessing areas.

While the College's Career office offers services to employers (<u>www.esf.edu/career</u>), the CHE Department (www.esf.edu/chemeng) together with the Syracuse Pulp and Paper Foundation (SPPF) (<u>sppf-eng.org</u>) collaborate to provide more personal and extensive service to companies and organizations recruiting students and graduates from the ChE Department. These company interactions foster a stronger relationship with the employers and allow us to build long-term relationships with companies. Many companies that recruit students from the ChE department help support students through SPPF.

SUNY-ESF graduates students in May, August, and December with most students graduating in May. Our recruiting schedule typically begins soon after the start of the fall semester at the end of August. Companies are encouraged to recruit early as many of our students have already accepted permanent jobs (for those graduating) and summer internships and co-ops by the middle of the spring semester. Company representatives should contact either the SPPF office (315-470-6592) or the CHE Department Office (315-470-6501) for more information or to schedule interviews.

> Gary M Scott Director of Engineering 26 June 2023

# Syracuse Pulp and Paper Foundation (SPPF)

The heart of the Syracuse Pulp and Paper Foundation's work is our student scholarship program. With college enrollment declining and education costs rising nationwide, the need to entice topnotch talent to our industry is paramount to its survival and prosperity. By providing scholarships to dedicated student leaders, SPPF has strengthened the college's Paper, Chemical, and Bioprocess Engineering faculty and increased enrollment of top students from around the nation and the world.

Your support of SPPF's efforts is an investment in your future, for it is nothing short of a self-renewing of the most advanced minds and technological resources for member corporations. Selected from ESF's highly qualified student pool, CHE scholarship recipients reflect the peak of excellence -- in academic achievement and commitment that includes unmatched technical expertise and managerial excellence for the pulp and paper industry.

As expressed in its bylaws, the Foundation goals are:

- To encourage students in the study of paper science and engineering;
- To provide financial assistance in the form of scholarships, grants, and loans, including loans without interest or other charges, for students who enroll in paper science and engineering;
- To provide an opportunity for alumni and interested leaders of the pulp and paper and allied industries to strengthen the paper science and engineering curriculum;
- To further fundamental and applied research of importance to the pulp, paper, and allied industries through special grants and fellowships;
- To provide a means of liaison and communication between paper science and engineering academic personnel and the pulp, paper, and allied industries

Membership includes corporate sponsors, equipment donors, alumni donors, and interested individuals. SPPF is governed by a Board of Directors elected at the annual meeting held in Syracuse each October. Officers are elected by the Board of Directors. Standing committees composed of directors, corporate representatives, individual members, faculty members, and ESF administration advise the Board of Directors.

SPPF corporate members are provided various benefits, particularly in regards to recruiting and hiring students.

# Educational Programs

The programs provide education in the physical sciences and chemical engineering, with specific emphasis on those aspects that relate to the sustainable manufacture of pulp and paper, and other products from wood and other lignocellulosic materials. At the B.S. level, the engineering programs include the basics of chemical engineering with a foundation of unit operations and specialized courses, for example, in air and water pollution abatement from an industrial perspective. The paper engineering program extends this foundation to present a chemical engineering education tailored specifically to the pulp and paper industry. The bioprocess engineering programs extends a chemical engineering education with a focus on biomass feedstocks and biological processes rather than a focus on petroleum. The paper science program and renewable materials science program take a more science-based (e.g., chemistry or biology) approach to the study of pulp, paper, and renewable materials.

# Undergraduate Programs (B.S.)-Majors

## Bioprocess Engineering (B.S.)

The bioprocess engineering program prepares students for careers as engineers in biological and chemical process-related fields, filling positions that are typically filled by chemical engineers following additional training. Students in this program master a variety of subjects that are normally found in a chemical engineering program and supplement those studies with advanced courses specific to bioprocess engineering. The program focuses on the use of - sustainable renewable biomass to replace petroleum in chemicals, pharmaceuticals, energy and industrial products in a sustainable manner. The bioprocess engineering program is accredited by the Engineering Accreditation Commission of ABET, (http://www.abet.org).

### Chemical Engineering (B.S.)

The Bachelor of Science degree in Chemical Engineering at ESF is distinguished by a strong emphasis on engineering of chemical and biochemical processes. With a focus green and eco-friendly products and processes, we educate students for careers in the chemical, materials, and sustainable environment industries. Our courses give students the appropriate background to specialize in any field of modern chemical engineering.

### Paper Engineering (B.S.)

The paper engineering program is a chemical engineering-based curriculum designed to provide greater depth in fiber and paper processing for students preparing for an engineering career in the pulp, paper and allied industries. The pulp and paper industry is at the forefront of the renewable resources industry. It represents the first industry that uses biomass in large quantities to produce commodity and specialized products. Graduates are well prepared to move into assignments in the engineering field and advance quickly to positions of responsibility in the analysis and design of processes and equipment. The paper engineering program is accredited by the Engineering Accreditation Commission of ABET, (http://www.abet.org).

### Renewable Materials Science (B.S.)

The renewable materials science program educates students in the science of materials and products made from renewable resources. The program provides an in-depth knowledge of materials such as wood, paper, modern packaging materials, biochemical, polymers, natural fiber materials and advanced materials emphasizing sustainability, environmental consciousness and minimizing environmental footprint. Students can explore a variety of careers in modern packaging, natural products and renewable materials industries, focused on technical, scientific and managerial tracks. The program will have the following options: paper, wood, and polymer science. The third option is offered in conjunction with the Department of Chemistry.

# Undergraduate Programs-Minors

Some students complete one or more minors at SUNY-ESF which provide students with an opportunity to extend their knowledge beyond their major field. While SUNY-ESF offers over 20 different minors, listed below with brief descriptions are the minors most often taken by students in the CHE Department (http://www.esf.edu/academics/minors.htm).

### Bioprocess Science

The bioprocess science minor gives students an understanding of the rapidly developing bioprocessing industry, which uses the chemical, physical and biological processes developed by living organisms or their cellular components in a type of advanced manufacturing of specialty commercial products.

### Chemistry

The chemistry minor provides students with a greater depth of knowledge in the field of chemistry. Students can specifically take courses in biochemistry, environmental chemistry, polymers, as well as physical, analytical, and organic chemistry.

### Computer and Information Technology

The computer and information technology minor allows students to develop greater skill in computer science and information technology applications. By understanding the basic principles behind software development, students can more effectively use these tools in their chosen fields.

### Management

The management minor helps students to develop greater skills and knowledge of business fundamentals. In addition to understanding basic financial and managerial accounting principles, students can further develop focus in their minor through coursework in entrepreneurship, finance, marketing, human resources, and other topics.

### Mathematics

The mathematics minor is for students that have an interest in developing greater knowledge in the field of mathematics.

### Microscopy

The microscopy minor provides knowledge of methods and applications of light and electron microscopes for research and industry. The minor will prepare students to use a variety of microscopes for applications in biology, nanotechnology, environmental medicine, chemistry, materials science, engineering, pulp and paper and others.

#### Paper Science

The paper and related industries (including pulp, mineral, chemical and machinery suppliers) continually seek knowledgeable and skilled employees. This minor gives students a thorough understanding of the paper industry that will allow them to apply their major field of study to this growth industry.

### Physics

The physics minor is for students who have an interest in developing greater knowledge in the field of physics.

### Renewable Energy

This minor will provide students an opportunity to examine different sources of traditional and renewable energy simultaneously in the context of our total energy use using a systems perspective. Students will be exposed to views from a variety of disciplines as they wrestle with a wide array of issues related to current and future energy supply and use.

### Sustainable Construction

The objective of the minor is to provide a fundamental understanding of the concepts and methods used to take a design into the field and build a quality sustainable structure in the most efficient and effective manner with minimal environmental impact.

# Paper and Bioprocess Engineering Program-M.P.S.

The M.P.S. degree requires the successful completion of a minimum of 30 to 36 credits at the graduate level (depending on the option chosen) after the completion of the B.S. degree. A professional experience (internship) or synthesis completes a key requirement of the M.P.S. degree requirements. The M.P.S. program in paper and bioprocess engineering has three options described below.

Our graduate level M.P.S. program is designed to train students from other fields in the fundamentals related to paper engineering and bioprocess engineering. They are also ideal for engineers and scientists currently working in the industry who wish to retrain and refresh in a new field. Companies often hire these students into the same positions as our more traditional B.S. students. The M.P.S. students often bring a broader perspective to the field as they often come from other engineering fields as well as environmental science, chemistry, or biotechnology.

## Bioprocess Engineering

This option encompasses both the use of renewable and sustainable resources (e.g., wood) for the production of chemicals, advanced materials, fuel, and energy, as well as the use of bioprocessing technology to produce such products. Such bioproducts extend to the production of energy from renewable resources including the use of gasification, co-firing of byproducts, anaerobic digestion, solar, and the production of ethanol. Courses include chemical engineering, advanced chemistry, biotechnology, and bioengineering, building on a strong base of mathematics, chemistry, and biology.

# Paper Science and Engineering

Studies in this option deal closely with processes involved in the manufacture of pulp and paper as well as the allied industries. Courses concerned with this subject are central to a student's program, extended and enriched with selected courses in chemistry, polymers, chemical engineering, process control, applied mathematics, and computer applications. Supporting this work is an experimental pulp and paper mill with two complete paper machines, a pressurized refiner, and extensive auxiliary equipment.

## Sustainable Engineering Management

This option allows students to investigate either of the two topic areas above together with courses in business, management, policy, law, and other fields to form a Professional Science Master's program (PSM) recognized by the National PSM office (www.sciencemasters.com). The PSM concept is an innovative graduate degree designed to allow students to pursue advanced training in science or engineering while also developing skills in the areas of business, management, and other professional skills. The educational objectives of the MPS in Sustainable Engineering Management are to produce graduates who effectively practice engineering for the design and operation of systems and can also apply their knowledge of business, management, policy, and other areas to their particular area of Sustainable Engineering Management. Graduates will have an understanding of their technical field together with a background in business and management.

## Paper and Bioprocess Engineering-M.S./Ph.D.

Students in the research-focused graduate programs master a variety of subjects that are normally found in a chemical engineering program, and supplement those studies with advanced courses specific to Paper and Bioprocess Engineering. The program focuses on the use of wood and other renewable biomass materials to replace petroleum in energy and industrial product applications. An important component of the M.S. and Ph.D. programs is thesis research under direction of a major professor. Recent work has been directed to fundamental investigations of pulping, bleaching, coproducts from wood, additives, paper recycling, effluent disposal, the papermaking process, the properties of paper, reactions of wood components during mechanical and chemical treatments, novel wood component separation techniques, new biotechnologically based pulping methods, process modeling paradigms, the structure of wood and wood fibers, evaporation, fluid dynamics, heat transfer, and chemical recovery. Students engage in one of three option areas within the Paper and Bioprocess Engineering graduate program. For each option, there are various subject areas being investigated. The M.S. and Ph.D. programs are research-based programs with the students engaging in significant research projects leading to a thesis or dissertation.

### Paper Science and Engineering Option

- Pulping and Bleaching Processes
- Colloidal Chemistry and Fiber Flocculation
- Fiber and Paper Physics
- Process and Environmental Systems Engineering

## Bioprocess Engineering Option

- Biocatalysis and Bioreaction Engineering
- Bioseparations Engineering
- Bioprocess Design, Simulation and Control
- Bioenvironmental Engineering
- Renewable Energy and Biofuels
- Biopharmaceuticals
- Industrial Biological Processes

### Biomaterials Engineering

- Biocomposite Materials, Biopolymers
- Bioactive Materials and Biosensors
- Nanocomposites and Nanostructured Materials

# Internship and Co-ops

Some undergraduate programs and the M.P.S. programs require students to complete an internship or other professional experience. While the students receive academic credit for completing the internships and co-ops, in the majority of the cases, these are also paid positions. Generally, students who have had the co-op experience are highly recruited for permanent employment due to their extended experience. On average, students have 9 months of work experience by the time they graduate.

## Internships

The summer internship is the most common position offered by companies. The typical internship is a 12-week experience for which students receive academic credit. Students submit a report and give a presentation upon completion of their internship.

## Co-ops

Co-ops are extended work experiences that provide students with additional work experience. Students who complete a co-op in addition to the 12-week internship find the experience highly valuable because they are often able to see engineering projects through to their completion.

# Work Schedule for Internships and Co-ops

The work schedule for the position is determined by the company offering the position. However, the table below lists the typical positions that are offered.

Type of Professional Experience	Nominal Schedule <sup>1</sup>
Internship	15 May to 20 August
Co-op	1 January to 20 August (Spring co-op)
(summer and semester)	
Со-ор	1 January to 15 May (Spring co-op)
(semester only)	20 August to 31 December (Fall co-op)
Со-ор	1 January to 15 May (Spring co-op)
(part-time) <sup>2</sup>	20 August to 31 December (Fall co-op)
Со-ор	1 January to 30 June (Spring co-op)
(split calendar year)	1 July to 31 December (Fall co-op)
Со-ор	15 May to 20 August of following year
(extended co-op)	(15-month experience)

# Co-op and Internship Expectations

Students are expected to use the internship and co-op experiences as significant learning experiences in which they apply the knowledge from their classes, learn about the industry, and gain professional skills necessary to become a successful engineer. During the course of the internship/co-op, students are expected to:

- Gain practical, hands-on experience in an industrial setting
- Use engineering knowledge to troubleshoot and solve problems
- Report on their work being done, discussing its relevance to their major project, personal benefits, and benefits for the company
- Understand the company's culture and core values
- Foster relationship with fellow engineers and employees
- Represent ESF professionally, responsibly, and safely

<sup>&</sup>lt;sup>1</sup> The academic schedule varies from year to year. Typically, the fall semester begins the Monday before Labor Day and the spring semester ends the 2<sup>nd</sup> week of May.

<sup>&</sup>lt;sup>2</sup> Students work part-time (10 to 30 hours per week) while also attending classes on a reduced schedule. This option generally requires flexible scheduling and local positions.

By the end of the experience, students are expected to be able to:

- Explain how the work done benefited their engineering knowledge and future career plans
- Relate the work done to the program/curriculum
- Explain how the work done improved the company/ mill (ex: saving money, improved production, etc.)

Companies are free to hire students at any level in the program. Based on the students' level in the curriculum, the expectation of the students change. The general descriptions below provide guidance for employers on the expected level of the student performance.

Freshmen:

- a. Thoroughly describe the company's products, process, and market
- b. Describe the company's history
- c. Know and practice the safety standards expected by the company
- d. Collect and analyze data; explain importance of this data

Sophomores (the above and):

- e. Explain the role of engineers in the company
- f. Collect and analyze data based on a project or trial assigned to you
- g. Assist in the company's engineering, product development, or quality assurance groups/ teams and assist in their projects

Junior/Senior/M.P.S. students (the above and):

- h. Design a unique and independent project that will benefit the company and enhance your knowledge of the industry
- i. Collect and thoroughly analyze data and report the results (written and oral)
- j. Research the career path options of engineering in the company

Co-op (the above and):

- k. Design, implement, and lead a project and report on the findings (written and oral)
- I. Describe how the project fits into the company's process and the fiscal impact associated with the project

# Permanent Positions

Companies are welcome to interview for permanent positions for both undergraduate and graduate students.

Approximate Date	Event			
1 July	SPPF members can schedule interview dates			
1 August	Other companies can schedule interview dates			
15 August	Receipt of company promotional material for student welcome bags			
Last Monday in August	Start of fall semester			
1 <sup>st</sup> week in September	Start of "early bird" interview schedule (second week of classes)			
3 <sup>rd</sup> week in September	Start of regular interview schedule (fourth week of classes)			
October	Fall SPPF meeting and Student Recognition Luncheon (date varies)			
1 <sup>st</sup> or 2 <sup>nd</sup> week in December	End of fall semester			
Martin Luther King weekend	Tappi Student Summit (location varies over MKL weekend)			
2 <sup>nd</sup> or 3 <sup>rd</sup> week in January	Start of spring semester			
March or April	Spring SPPF meeting			
1st week in May	End of spring semester			

# Recruiting and Company Event Schedule

# Arranging Interviews

The first step to setting up an interview is to contact Ms. Debbie Dewitt of SPPF (See contact information) to determine the schedule and the mechanics of the interview, including how the interview schedule is filled and the details of the evening program as discussed below. Once the date is selected, the interview is posted to our online system and the students notified that the sign-up sheet is available. The sign-up sheet and student resumes will be sent by email several days before the interview. Schedules and resume packets will be available the day of the interview.

# Interview Mechanics

For all employers, we offer you a choice between open sign-up or pre-screening for setting up the interview schedule. Prescreening allows you an advanced review of student resumes that have indicated an interest in your position and you can select the students allowed to sign up for interviews. Prescreening will require additional lead time for resume review and scheduling.

## Evening programs

Evening programs, or company information sessions, can be an important part of the interview process. They allow your company to reach a large number of students, beyond those that may have signed up for the interview. In addition, they provide an opportunity for companies to provide general information *en masse* to the students, freeing up interview time to concentrate on the students' qualifications. Evening programs typically consist of a company presentation and a question and answer session. In addition, food is traditionally provided before the presentation. Vendors that have been used in the past can be found in the Appendix.

## Student Ambassadors

On your request, we will provide you with a student ambassador (typically a senior or graduate student interested in the position) that will help with the logistics of the interview and primarily the evening program (AV needs, food, etc.).

# College Policies

SUNY-ESF and SPPF are committed to ensuring that all students, faculty and staff members, and visitors are afforded every opportunity to participate freely in activities on the campus. To accomplish this goal, we wish to make you aware of the following College policies. The policy details can be found on the College website.

### Disability Accommodations

As part of the Equal Employment Opportunity and Affirmative Action Program, the College will provide equal opportunity and will not discriminate because of his/her disability. If you require reasonable accommodations to utilize our services due to disability, please contact us and let us know how we may assist you. (http://www.esf.edu/au/pp.htm)

## Title IX Policy

Title IX is the federal anti-discrimination law that states: "No person in the U.S. shall, on the basis of sex, be excluded from participation in, or denied the benefits of, or be subjected to discrimination under any educational program or activity receiving federal aid." (Title IX of the Education Amendments of 1972). This applies to all College programs and activities including, but not limited to, academic and athletic programs, financial aid and student records and accounts, health and counseling services, and housing and residence life programs. Title IX prohibits sex discrimination against students, employees, or third parties. Sex discrimination includes sexual harassment, sexual assault, and sexual violence. (http://www.esf.edu/au/documents/Title%20IX%20Policy.pdf)

### Smoking Policy

Smoking is prohibited in all College-operated buildings and in all vehicles owned and operated by the College. Doorways and loading docks are considered part of a building. Smoking is also prohibited in any outdoor area where flammable substances or combustible materials are used or stored. Persons who choose to smoke may do so outdoors no closer than 25 feet from building openings such as doors, windows, air intakes, loading docks, etc.

(http://www.esf.edu/au/documents/CollegeSmokingPolicy.pdf)

Donor	Scholarship	Corporate Donor	Contributing Donor	Participating Member	Benefit
\$10,000	\$5,000	\$2,500	\$1,000	<\$999	
Х					Company display case in Walters Hall Lobby <sup>3</sup>
х	х				Invitation to provide a "Company Spotlight" poster at the fall Student Awards Luncheon
x	х				Your organization provides a short promotional video that will be posted on the SPPF and website under "Supporting Employers"
х	х	х			Use of a "Supporting Employer" Bulletin Board in the main hallway (2 <sup>nd</sup> floor) of Walters Hall
х	х	х			"Early bird" interview days for on-campus interviewing
х	х	х			Interview date with optional evening program – may include required class <sup>4</sup>
x	x	Х			Company display opportunities poster at SPPF student events (fall student luncheon/spring informal dinner) indicating level of support
х	х	х	х		Nomination for voting representation on the SPPF Board of Directors
x	х	х	х		Inclusion of company welcome letter in new student packets
x	х	Х	х	х	Inclusion of company-logo materials in new student welcome bags
x	х	х	х	х	Organization name and logo in SPPF newsletters and annual report including contribution level
х	х	х	х	х	Access to student resume packets when information sessions are scheduled

# Appendix A: SPPF Member Recruitment Benefits

<sup>&</sup>lt;sup>3</sup> Two display cases are available to the top corporate contributors to SPPF from the previous academic year as determined by the SPPF Board of Directors at their Fall meeting for the following calendar year. A minimum contribution of \$10,000 is necessary to be eligible for the display case.

<sup>&</sup>lt;sup>4</sup> On a space available basis. The evening program would typically be paired with a Thursday interview schedule. The course is required for all sophomores, juniors, and seniors.

# Appendix B: Contact Information

## Department of Chemical Engineering

SUNY-ESF One Forestry Drive Syracuse, NY 13210

Ms Barbara Scharf Secretary Phone: 315-470-6501 Email: <u>bscharf@esf.edu</u>

Dr Bandaru Ramarao Chair, Department of Chemical Engineering Phone: 315-470-6513 Email: <u>bvramara@esf.edu</u>

Dr Gary M Scott Professor, Department of Chemical Engineering Director, Division of Engineering Phone: 315-470-6523 Email: gscott@esf.edu

# Syracuse Pulp and Paper Foundation

One Forestry Drive Syracuse, NY 13210

Ms Debbie DeWitt Secretary Phone: 315-470-6508/6592 Email: <u>sppf@esf.edu</u>

# Appendix C: Directions and Parking

### From Points East of Syracuse:

- 1. New York State Thruway (I-90) west to exit 36 for I-81 south.
- 2. I-81 south to exit 18 for East Adams Street (follow signs).
- 3. Turn left onto East Adams Street; proceed two blocks to Irving Avenue.
- 4. Turn right onto Irving Avenue. Follow Irving Avenue to the end.
- 5. The ESF campus entrance is on your left, next to the Carrier Dome.

### From Points South of Syracuse:

- 1. I-81 north to exit 18 for East Adams Street.
- 2. Turn right onto East Adams Street at the end of the exit ramp.
- 3. Proceed two blocks to Irving Avenue.
- 4. Turn right onto Irving Avenue. Follow Irving Avenue to the end.
- 5. The ESF campus entrance is on your left, next to the Carrier Dome.

### From Points West of Syracuse:

- 1. New York State Thruway (I-90) east to exit 36 for I-81 south.
- 2. I-81 south to exit 18 for East Adams Street (follow signs).
- 3. Turn left onto East Adams Street; proceed two blocks to Irving Avenue.
- 4. Turn right onto Irving Avenue. Follow Irving Avenue to the end.
- 5. The ESF campus entrance is on your left, next to the Carrier Dome.

### From Points North of Syracuse:

- 1. I-81 south to exit 18 for East Adams Street (follow signs).
- 2. Turn left onto East Adams Street; proceed two blocks to Irving Avenue.
- 3. Turn right onto Irving Avenue. Follow Irving Avenue to the end.
- 4. The ESF campus entrance is on your left, next to the Carrier Dome.

### Address for campus entrance:

1000 Irving Ave.

Syracuse, NY

### Coordinates for Irving Parking Garage:

N43°02.213', W076°08.358'

Please contact Ms Debbie Dewitt or Ms Barb Scharf for parking information and permits. We will try to provide on-campus parking if possible.

# Appendix D: Food Providers

This list is provided as a convenience to our recruiters. While these represent restaurants/caterers that we have used in the past, we do not necessarily endorse any one over the other. Other restaurants/caterers are also available in the area. The website should be consulted for hours and delivery (if available).

#### Dinosaur Barbeque

246 W. Willow St Syracuse, NY 13202 315.579.0400 Fax: 315.476.1663 <u>https://www.dinosaurbarbque.com/</u> Contact: Chelsea Jones, Catering Dept. <u>syrcatering@dinobbq.com</u>

### American Food and Vending

124 Metropolitan Park Dr Liverpool, NY 13088 315-457-9950 http://www.afvusa.com/

### Brooklyn Pickle

2222 Burnet Ave Syracuse NY 13206 315-463-1851 http://www.brooklynpickle.com/

#### Wegmans

6789 E. Genesee Street Fayetteville, NY 13066 315-446-1610 www.wegmans.com/parties

#### Subway

210 W Genesee St Syracuse, NY 13202 315-430-0904 <u>http://www.subway.com/en-us</u> Contact: Vana

#### Dorians Pizza

534 Westcott Street Syracuse NY 13210 315-472-2697 http://dorianspizzasyracuse.com

### Papa Johns

Papa Johns – Pizza 500 Westcott Street Syracuse, NY 13210 315-474-7272 Open 11 AM to 1 AM www.papajohns.com/order

### Change of Pace

1809 Grant Blvd Syracuse, NY 13208 315-472-4409 http://www.changeofpacesyracuse.com/

### Jimmie Johns

103 Marshall Street Syracuse, NY 13210 315-479-7827 www.jimmyjohns.com

### Chipotle

129 Marshall St Syracuse, NY 13210 (315) 422-1904 https://www.chipotle.com/

### Varsity Pizza

802 S Crouse Ave Syracuse, NY 13210 315-478-1235 http://varsitysyracuse.com/

#### New Garden Chinese Restaurant

471 Westcott St Syracuse, NY 13210 315-472-6666 http://newgardensyracuse.com/

#### Alto Cinco

526 Westcott St Syracuse, NY 13210 (315) 807-7544 <u>http://www.altocinco.net/</u> Contact: Emma <u>altocincocatering@gmail.com</u>

### Syracuse University Food Services

Syracuse University 201 Aisley Drive Syracuse, NY 13244-5110 315.443.3605 <u>http://foodservices.syr.edu/</u> Contact: Emma Yotti, Office Coordinator

edyotti@syr.edu

#### OIP Pizza

120 Julian Plaza Syracuse, NY 13210 315-446-8728 Open 11 am – 9 pm www.myoip.com

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**Department of Paper and Bioprocess Engineering**