

SEAS Advanced Graduate Leadership Program PROGRAM OVERVIEW AND APPLICATION

The SEAS Advanced Graduate Leadership Program is designed to provide experiences and training beyond the research lab to better prepare Yale Engineering doctoral students for a wide variety of career opportunities. Fellows will have access to internships and educational opportunities during the summer and academic year in four main career tracks: academia, industry, business, and public service.

Acceptance into the SEAS Advanced Graduate Leadership Program is competitive. Applicants must be enrolled in the doctoral program in the Yale School of Engineering & Applied Science and have successfully completed their first year of doctoral study. Selection is based on academic performance, letters of recommendation, ability to express a clear and compelling interest or motivation in pursuing this opportunity, and availability of internships. **Participation should not impact progress toward existing research and academic commitments.**

Students selected to the Advanced Graduate Leadership Program have access to the following:

- One prescribed Leadership Program opportunity/internship (see Leadership Program Opportunities section on following page for options)
- Group leadership training
- Up to \$3,000 for additional career development (may include conferences, career fairs, additional training opportunities, leadership or career coaching, etc.)

Application Process: Applications must be submitted in full to the Dean's Office no later than 5 pm on the specified deadline date. Applications can be submitted to Deputy Dean Vince Wilczynski, Office of the Dean, Dunham Laboratory, 222.

Application Deadline: May 20, 2016

Application: Please use the template **AGLP 2016-17 APPLICATION FORM** (included in this document) to create your application.

DESCRIPTION OF OPPORTUNITIES FOR 2016 – 2017

Students may choose **one** opportunity from the list below. On average, these opportunities will require a time commitment of 5-10 hours per week for one semester (fall 2016, spring 2016, summer 2017, or fall 2018).

All experiences are **unpaid**, however a modest budget will be available per fellow to cover the expense of approved activities.

ACADEMIC OPPORTUNITIES: focus on the competencies and experiences that form the basis for becoming a successful professor and researcher. Fellows will benefit from internship and educational opportunities that allow them to hone skills in teaching, research, and outreach.

Students selected to the Leadership Program will work with the program coordinator to establish a portfolio of experiences that could include participation in any of the following activities.

1. *New Experiments* (spring 2016, summer 2017, or fall 2018)

Supports the development of new experiments and laboratory techniques used to further academic career development (not part of the student's dissertation research). Leadership Program funds will be available for this purpose.

2. *Professional Mentorship* (spring 2016, summer 2017, or fall 2018)

Supports the development of professional expertise through teaching mentorship and grant-writing assistance and proposal review for new research (not part of dissertation). Fellows may be paired with one of Yale's leading engineering professors for one-on-one mentorship, in addition, they may participate in grant writing clinics and other relevant courses on campus, including those offered through the Graduate Teaching Center.

3. *Communications* (spring 2016, summer 2017, or fall 2018)

Supports an internship with the Yale Office of Public Affairs gaining experience in writing press releases on current research as well as developing stories and graphic illustrations of research.

POLICY & PUBLIC SERVICE OPPORTUNITIES: designed for students interested in policy, law, and/or careers in science education and outreach. Fellows will benefit from internship opportunities at Yale where they may apply their science and engineering education to develop policies and create programs that will benefit society at large. Fellows may also have the opportunity to take relevant Yale courses in law, policy and management.

4. *Policy and Government Relations* (spring 2016, summer 2017, or fall 2018)

Consists of a one-semester internship with Rich Jacob, Associate Vice President for Federal Relations in the Office of Federal Relations at Yale. The fellow will be assigned an issue (i.e., climate change) or a portfolio of issues, in which he/she will be involved. This includes closely following legislation and related debate; keeping Rich Jacob and others informed of key events, such as hearings, markups and votes; as well as identifying opportunities for Yale faculty or staff to testify. The fellow would work with Rich Jacob in briefing various offices within Yale and participate in internal discussions about implementation of new federal rules, when appropriate. The position will include one or two trips to Washington, D.C. for relevant hearings, meetings, and/or conferences. Candidates must demonstrate excellent writing and communication skills. A reasonable budget will be provided to cover the expenses of travel to Washington, D.C.

5. *K-12 Outreach* (spring 2016, summer 2017, or fall 2018)

Consists of a one-semester internship with Claudia Merson in the Yale Office of New Haven and State Affairs (ONHSA). Fellows will gain an understanding of K-12 science education and ways in which universities can make resources available to local teachers and students. To gain experience, fellows will volunteer in an existing outreach program of interest, observe in K-12 classrooms and contribute to ONHSA's new Science Pathways program. Pathways is a University-wide outreach initiative, which actively supports students in a sustained manner from middle school through high school and beyond. In addition, the fellow will have the opportunity to be a key contributor in the design and implementation of a new Pathways outreach event. This fellowship offers students the opportunity to develop as scientists and educators, an increasingly vital component of successful academic careers. A reasonable budget will be provided for the organization of a new event or participation in a relevant conference or training experience.

BUSINESS/INDUSTRY OPPORTUNITIES: focus on management, entrepreneurship, and experiences that provide a practical application of the fellow's engineering education and training to gain an understanding of the business processes related to product development. Fellows will participate in a Yale internship or a four-semester course sequence offered by the Yale School of Management.

6. *Technology Ventures* (spring 2016, summer 2017, or fall 2018)

Consists of a one-semester internship with Bill Wiesler, Director of New Ventures in the Yale Office of Cooperative Research (OCR), where fellows will gain opportunities to shape how Yale inventions are translated into commercial products and services by entrepreneurs and venture capital firms. As new venture analysts, fellows will directly participate in the development of strategies for new ventures based on competitive market analysis and intellectual property position, the building of management teams, and alternative funding and business models. Fellows will attend and participate in a wide array of business meetings with Yale faculty, corporations, and venture capitalists, as well OCR staff meetings, where they will have opportunities to present and discuss their work with the whole licensing team at OCR. A reasonable budget will be provided for additional training, or conference travel, lodging and registration.

7. *Student Ventures* (spring 2016, summer 2017, or fall 2018)

Consists of a one-semester appointment as a Technology Fellow with the Yale Entrepreneurial Institute. The Technology Fellow will gain a unique opportunity to help the YEI staff assess a wide range of new venture opportunities, as well as to work alongside founders of existing Yale student ventures, contributing to the development of a range of products and services. The Technology Fellow may also be expected to contribute to a YEI venture's understanding of market competitors, their specific technology platforms, and to provide an analysis of relevant intellectual property. The Technology Fellow will allocate time between a handful of specially selected ventures, actively participating in a wide array of meetings with YEI staff, venture team members, early stage investors, and outside mentors. **This opportunity is a summer internship, which may require some involvement during the spring semester.**

8. *School of Management* (available fall 2016 or fall 2017)

Consists of a four-semester coursework sequence in the Yale School of Management that includes core courses and electives.

AGLP 2016-17 APPLICATION FORM

DUE MAY 20, 2016

Name: _____ Date: _____

Department or Program: _____

Faculty Advisor: _____

Area of Research: _____

Years in Program: _____ (must have successfully completed first year of doctoral study)

Anticipated Graduation Date (semester/year): _____

Area of Interest: Please place a check mark next to the opportunity for which you are applying and circle the desired internship period. If applying for more than one, please rank your selections.

(X)	TRACK	OPPORTUNITY			
	Academia	<i>New Experiments</i>	Spring 2017	Summer 2017	Fall 2018
	Academia	<i>Professional Mentorship</i>	Spring 2017	Summer 2017	Fall 2018
	Academia	<i>Communications</i>	Spring 2017	Summer 2017	Fall 2018
	Academia	<i>Undergrad Engagement</i>	Spring 2017		Fall 2018
	Public Service	<i>Policy and Government Relations</i>	Spring 2017	Summer 2017	Fall 2018
	Public Service	<i>K-12 Outreach</i>	Spring 2017	Summer 2017	Fall 2018
	Business/Industry	<i>Technology Ventures</i>	Spring 2017	Summer 2015	Fall 2018
	Business/Industry	<i>Student Ventures</i>		Summer 2017	
	Business	<i>Yale School of Management</i>	Fall 2016		Fall 2017
	Business/Industry	<i>Office of Research Administration</i>	Spring 2017	Summer 2017	Fall 2018

Essay: Please explain why you have chosen this opportunity, what your career aspirations are, and how you think this program and this particular opportunity will help better prepare you for such a career. If you have selected more than one opportunity, please articulate your interest in each and preference.

Summary of Research Progress: Please discuss your application with your faculty advisor, including any impact that participation in the SEAS Advanced Graduate Leadership Program might have on fulfilling degree requirements and expectations, and summarize that discussion in your application.

CV: Please submit your CV.

Letters of Recommendation: Please provide two letters of recommendation, one of which must be provided by your faculty advisor, as either as an attached document or within the body of the message to vincent.wilczynski@yale.edu. The second letter of recommendation should be provided by someone who can attest to your academic abilities and/or your aspirations and potential beyond graduate school.

Signature of Understanding: All SEAS Advanced Graduate Leadership Program fellows must remain in good academic standing and maintain acceptable progress toward their degree for the duration of their participation in this program. The 5-10 hours per week, on average, commitment is in addition to required time in the lab and coursework and must not come in place of either. Fellows will be required to complete a progress report at mid-semester and a final written report as well as presentation upon completion of the experience. In addition, faculty advisors and internship mentors will be asked to provide feedback both to participating fellows and the SEAS Advanced Graduate Leadership Program coordinator and advisory group in an effort to identify and remediate concerns that may arise, as well as to evaluate the strength of the program and opportunity for improvement.

I understand that I must remain in good academic standing and maintain acceptable progress toward a degree through the duration of my participation in this program and that participation should impact progress toward existing research and academic commitments. If granted the opportunity to participate in this program, I agree to regularly discuss my progress toward a degree with my faculty advisor and complete all requested progress reports.

Applicant signature

Date