



NYU VIP Site Updates

Jack Bringardner, Director of VIP

Maria DiKun, Manager of VIP

5/11/2023

NYU Tandon & VIP Snapshot

About Tandon School of Engineering

- Downtown Brooklyn campus
- 7,000 students (NYU 40,000+)
- New Dean 5 years ago
- MakerSpace opened 7 years ago
- Curriculum Overhaul Committee
- Decentralized schools & global sites

About NYU VIP Program

- VIP started in Fall 2016
- Dean's initiative
- 1st Director Associate Dean of Academics
- Design and undergrad summer research
- Credit policy created by departments
- Expanding to rest of NYU

NYU VIP Site Updates

1. Growth
2. Outreach
3. Featured Teams
4. Resources

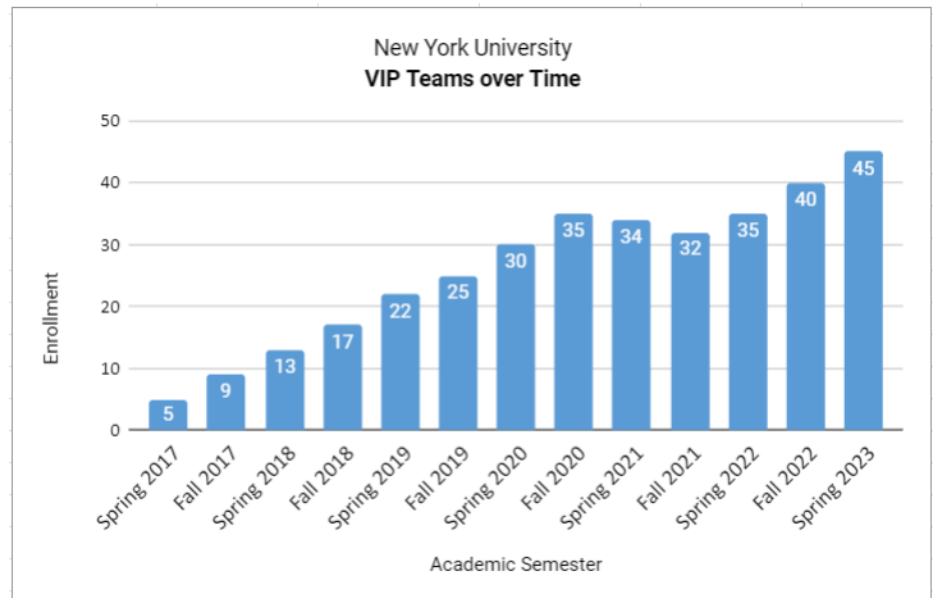
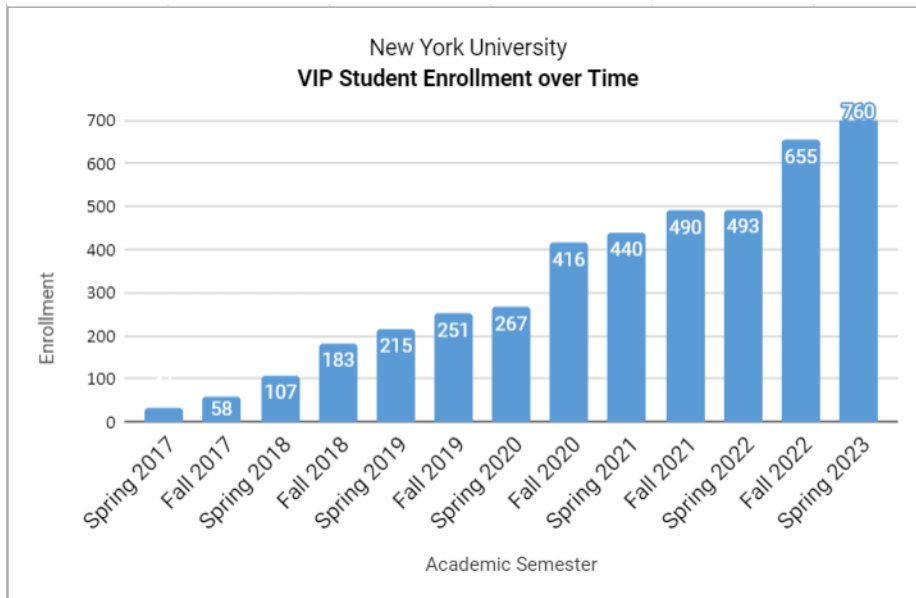
GROWTH

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At Tandon and beyond

01



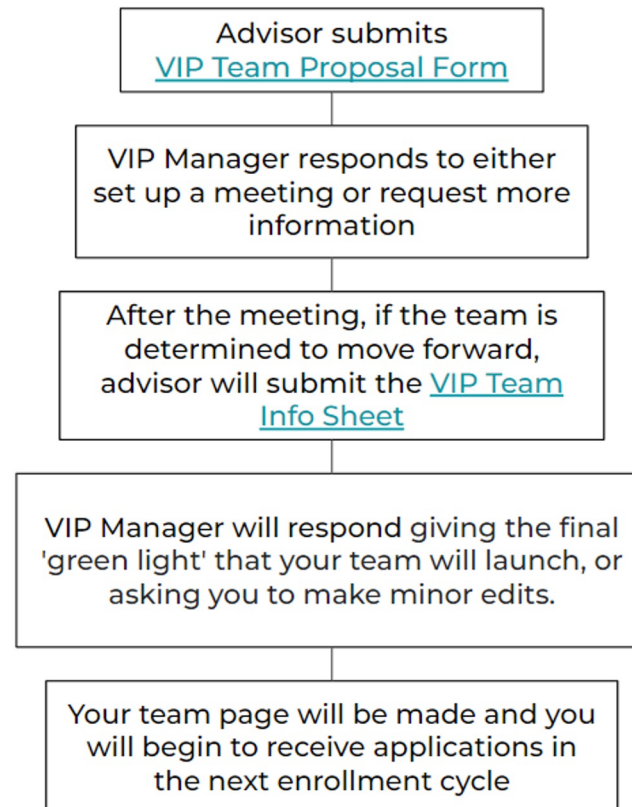
NYU VIP Growth



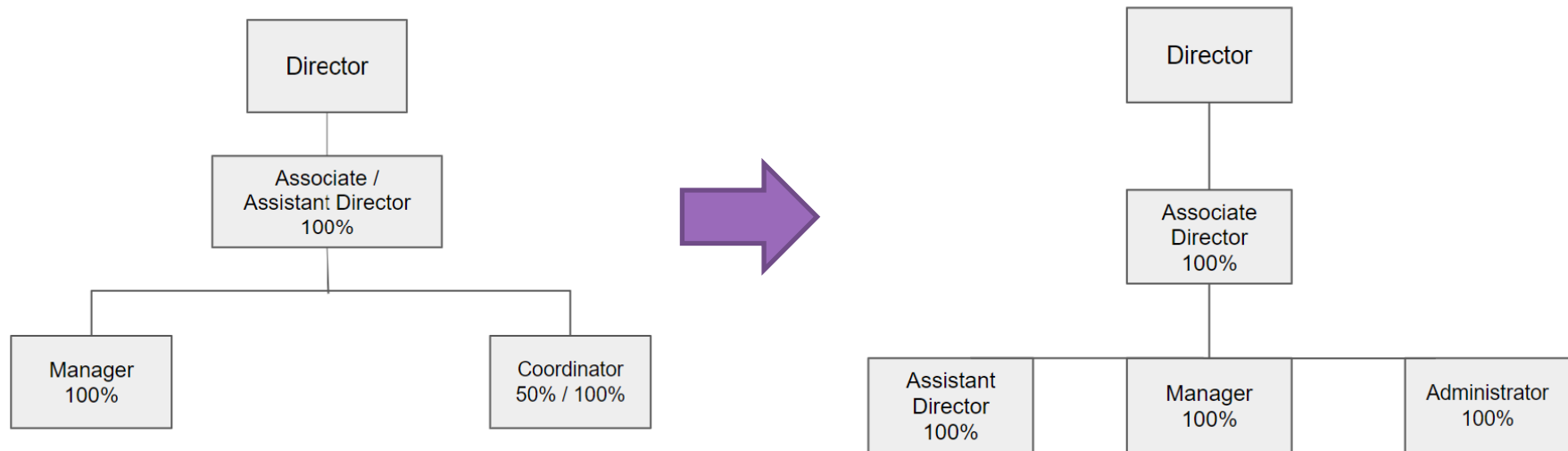
Snapshot of VIP Today

- **45** teams
- **54** advisors
 - 4 advise 2 teams
- **760** students currently enrolled (↑100 since Fall 2022)
- **1819** NYU students have had VIP on their transcript since 2016

Faculty VIP Team Proposal



VIP Staff Expansion



NYU VIP Credit Policies

<u>NYU Tandon Department</u>	<u>Free Elective</u>	<u>In-Major Elective</u>	<u>Capstone/ Senior Design</u>
Applied Physics	✓		
Chemical & Biomolecular Engineering	✓	✓	
Civil & Urban Engineering	✓	✓	
Computer Science	✓	✓	✓
Electrical & Computer Engineering	✓	✓	✓
Mathematics (Tandon)	✓		
Mechanical & Aerospace Engineering	✓	✓	
Technology, Culture & Society	✓	✓	
Technology Management & Innovation	✓		

NYU VIP ACCESSIBILITY

Sex	Percent Tandon	Percent VIP
Male Identifying	62%	56%
Female Identifying	38%	44%

Race/Ethnicity	Percent Tandon	Percent VIP
Nonresident aliens (international students)	22%	19%
Hispanic/Latino (residents)	14%	14%
Black or African American, non-Hispanic (residents)	6%	5%
White, non-Hispanic (residents)	16%	14%
American Indian or Alaska Native, non-Hispanic (residents)	0%	0%
Asian, non-Hispanic (residents)	32%	35%
Native Hawaiian or other Pacific Islander, non-Hispanic (residents)	0%	0%
Two or more races, non-Hispanic (residents)	3%	5%
Race and/or ethnicity unknown (residents)	7%	8%

First Generation Status	Percent Tandon	Percent VIP
First Generation student	33%	36%
Non-First Generation student	67%	64%



OUTREACH

—
Building Connections

02



Times Higher Ed Summit



2:15 PM - 4:30 PM EDT (2 Hours, 15 Min)

Campus tour: NYU Tandon MakerSpace

Meeting point: Kimmel Center lobby at 14:15

Join a guided tour of the NYU Tandon School of Engineering MakerSpace, a 10,000-square-foot ideation lab that President Andrew Hamilton referred to as "a fantastically well-equipped place for students to transform creative ideas into solid form and a way to leverage the school's unique blend of technology, creativity and innovation here in Brooklyn, the fast-beating heart of New York's innovation sector".

Following the tour, the bus will depart from NYU Tandon MakerSpace at 16:00 and return to Manhattan, making a stop at the Kimmel Center and then at the New York Marriott Marquis.



Inside Higher Ed NYU VIP



Inside
Higher
Ed

● March 06, 2023

Scaling Up: Multiyear Research Projects Give Students Career Experience

At New York University's engineering school, the Vertically Integrated Projects program provides experiential learning and research opportunities for students.

NYU Tandon Research Expo



TEAMS

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Featured Projects

03



Team Types

- **R**earch
- **I**ndustry-sponsored
- **D**esign
- **E**ntrepreneurial
- **S**ervice Learning

NYC Funded Flood Research



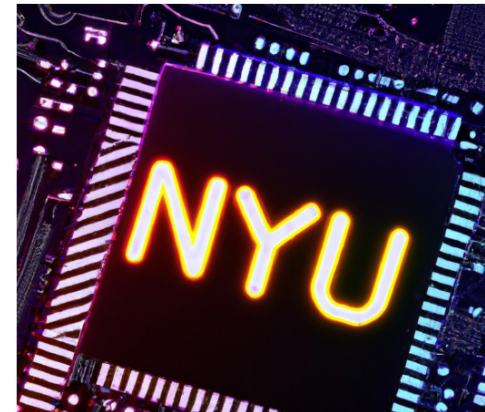
NYU X Purdue VIP

RESEARCH INNOVATION | STUDENT RESEARCH | VERTICALLY INTEGRATED PROJECTS | VIP TEAMS

NYU Processor Design (GY)

- Taking chips from conception to tape-out using cutting-edge technologies in open hardware design

VERTICALLY INTEGRATED PROJECTS



SoCET

Advisors:

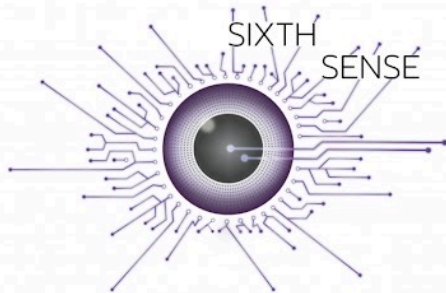
- Matthew Swabey
- Mark C Johnson

Description:

This team is eligible for senior design.

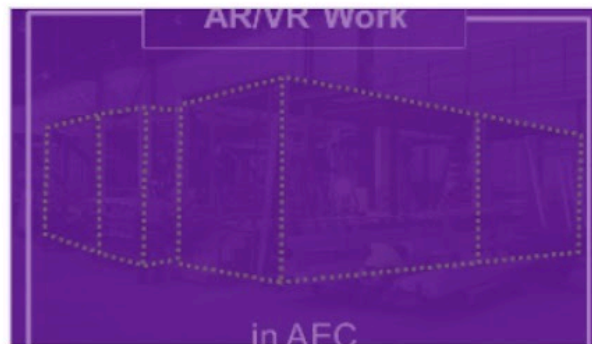


NYC Funded Research



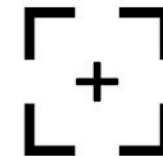
Sixth Sense (GY)

Addressing the challenges of mobility faced by the visually-impaired by developing technologies for navigation and obstacle avoidance



AR/VR Work in AEC

Leveraging realistic AR/VR environment for Architecture, Engineering, Construction (AEC)



**Defining
Accessibility
in XR**

Defining Accessibility within XR (GY)

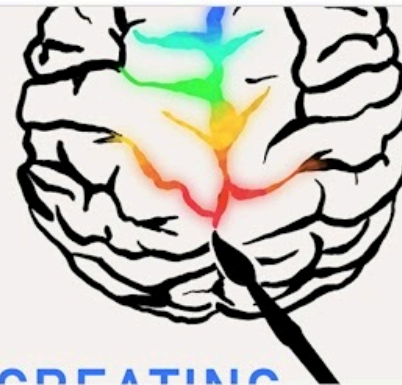
Innovate, explore, imagine, build and create accessible extended reality experiences that will truly be inclusive in their design

NYC Funded Research



IDBE IN STEM

**Inclusion, Diversity,
Belonging, and Equity
in STEM**



Creating Connections

Therapeutic Art for Patients with
Neurologic Disorders

NYU Tandon Research Expo



RESOURCES

Featured Projects

04+

Faculty Compensation

Responsibility over the team

- Direction and vision of the project, ensuring all students are engaged
- Creation of the syllabus
- Grading and tracking VIP notebooks
- Management of team / student issues and conflicts / grade concerns
- Ensure teams keep shared spaces orderly and follow the guidelines of these spaces
- Fair and inclusive admission processes

Be the main point of contact for VIP Management

- Relay messages from VIP Management to the team and vice versa
- Keep VIP Management informed of team accomplishments and issues when necessary

Overview and approval of all team budgetary matters

- Lookover and approve reasonable yearly budget request, timely review of purchasing
- Hold team responsible for staying within budget and making informed purchases
- Review travel expenses and team conference competition details
- Ensure teams abides by NYU and VIP travel and expense policies

VIP Program LMS Page

Resource center for Advisors

- **Templates**
 - VIP Notebook
 - Syllabus
 - Info Sheet (Application)
 - Budget
 - Communications
- **Policies**
- **Guidelines**

Resource center for Students

- **Budgets**
 - Budget Proposals
 - Budget Tracking
- **Purchasing & iBuy policies**
- **Finance**
 - Finance Leads
 - Reimbursement Process
- **Policies and Procedures**
 - Following NYU Standards
 - General Conduct
 - Enrollment & Academics
- **MakerSpace and Maker Garage**
 - Policies / Agreements
 - Trainings



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