COE by the numbers

- **151** tenured/tenure-track faculty
- **11** nationally funded research centers linked to 7 research initiatives
- **6600** students (3400 undergrad, 3200 graduate)
- **5** departments
- **50** programs: 8 BS, 8 minors, 17 MS, 10 PhD, 15 Certificate
Where You Come From
Across the World
Where You Come From

United States of America
Focus on Use-inspired Themes

BioMachine Integration

Water Sustainability and Health

Critical Infrastructure

Security, Sensing and Surveillance

Computing and Big Data

Nanotechnology and materials

Cyber Physical Systems

Enabling Technologies
Focus on Center-based Research

**Alert**
Explosives Detection (DHS)

**Protect**
Environmental Public Health (NIH)

**Center for High-rate Nanomanufacturing**
High-rate Nano-manufacturing (NSF)

**HSyE CHOT**
Healthcare Systems Management (NSF/Medicare)

**VOTERS**
Civil Infrastructure Assessment (NIST)

**IIA**
Information Assurance (NSA/NSF)

**Subsurface Sensing & Imaging (NSF)**

**CURRENT**
Resilient Electric Energy (NSF/DOE)

**TANMS**
Nanoscale Multiferroic Materials (NSF)

**CIBC**
Biomedical Computing (NIH)
3,200 Graduate Engineering Students

- Multidisc. MS Students: 50%
- Traditional MS Students: 30%
- Doctoral Students: 20%
# GRADUATE DEGREE PROGRAMS

<table>
<thead>
<tr>
<th>Multidisciplinary Master of Science</th>
<th>Traditional Master of Science</th>
<th>Doctor of Philosophy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Systems Engineering</td>
<td>Bioengineering</td>
<td>Bioengineering</td>
</tr>
<tr>
<td>Data Analytics Engineering*</td>
<td>Chemical Engineering</td>
<td>Chemical Engineering</td>
</tr>
<tr>
<td>Data Science*</td>
<td>Civil Engineering</td>
<td>Civil Engineering</td>
</tr>
<tr>
<td>Energy Systems</td>
<td>Electrical &amp; Comp. Eng. Leadership</td>
<td>Computer Engineering</td>
</tr>
<tr>
<td>Engineering &amp; Public Policy*</td>
<td>Electrical &amp; Computer Engineering</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>Engineering Management</td>
<td>Environmental Engineering</td>
<td>Industrial Engineering</td>
</tr>
<tr>
<td>Information Systems</td>
<td>Industrial Engineering</td>
<td>Information Assurance</td>
</tr>
<tr>
<td>Sustainable Building Systems</td>
<td>Mechanical Engineering</td>
<td>Interdisciplinary</td>
</tr>
</tbody>
</table>

*Supported by a Department within the COE*
Innovating Programs

4 new Master of Science programs:

- Data Analytics Engineering
- Data Science (Interdisc. program with CCIS)
- Environmental Engineering
- Engineering and Public Policy

14 new Graduate Certificate programs:

- MS with Certificate degree options for all students, stackable
Graduate Certificate Menu

**Engineering Management, Business, Leadership**
- Eng. Economic Decision Making
- Engineering Leadership
- Engineering Management
- Technology Systems Management

**Data and Communications Technology**
- Broadband Wireless Systems
- Computer Systems Engineering
- Data Mining Engineering
- IP Telephony Systems

**Supply Chain and Process Management**
- Lean Six Sigma
- Process Safety Engineering
- Supply Chain Engineering

**Energy**
- Energy Systems
- Energy Systems Management
- Renewable Energy
- Sustainable Energy Systems
Planning for Graduate Certificates

• Students in good standing are automatically eligible to apply

• Completion of 4 courses

• Stacked credentialing

• Certificate completion is recognized on official university transcript

• Talk with your program advisor about your career goals
Want to know more?

Certificate Orientation

September 6, 101 Churchill Hall, 2:00 – 3:00 pm

Tristan Johnson, PhD
Assistant Dean
Multidisciplinary Graduate Education and Digital Learning

Certificate Webpage: http://www.coe.neu.edu/degrees/certificates

Certificate FAQs:
https://husky.desk.com/customer/en/portal/topics/940249-graduate-certificates/articles
The GORDON ENGINEERING LEADERSHIP PROGRAM at Northeastern University

Program Overview
What is the Gordon Program?

• Selective engineering leadership program – focused on **leading teams to successfully implement projects**

• Complete as part of a range of MS programs
  - Bioengineering
  - Chemical Engineering
  - Civil Engineering
  - Computer Systems Engineering
  - Electrical and Computer Engineering
  - Energy Systems
  - Engineering Management
  - Industrial Engineering
  - Information Systems
  - Mechanical Engineering
  - Operations Research
  - Sustainable Building Systems

• For most programs, participating in GEL does not increase the number of credits required for your degree
Why become a Gordon Fellow?

• Learn to *inspire and influence* teams to deliver superior results

• Expand your understanding of *advanced technical concepts*

• Lead an *industry-focused Challenge Project* based on an organization’s strategic needs

• Advance your career with support from a personalized team of *academic and industry mentors*
How it Works

Master of Science Courses (typically 16 Credits) + Gordon Program Courses (16 Credits) = Master of Science Degree and Graduate Certificate in Engineering Leadership and “Gordon Fellow” designation
Gordon Program Courses (16 Credits)

1. Engineering Leadership
   - Leadership capabilities
   - Product Development Process
   - Interactive leadership and skills labs
   - Distinguished Speakers

2. Scientific Principles
   - Cross-functional engineering capabilities

3. Challenge Project
   - Real-world project
   - Focus on market value, technical depth, leadership growth
   - Mentor support
Admissions Requirements

• Strong *motivation and potential* to develop as an engineering leader

• Solid record of *academic performance*

• *Experience* in the field of engineering (co-ops and internships will be considered)

• An *industry sponsor* to support your Challenge Project (typically a full-time or internship employer)
Next Step: Contact Us

The Gordon Engineering Leadership Program
Stearns Center, Suite 415
gordonleadership@neu.edu
(617) 373-6052

http://www.neu.edu/gordonleadership
Lisa O’Neill, Director
Graduate Student Services
Your Student Services Contact:

<table>
<thead>
<tr>
<th>Lisa O’Neill</th>
<th>Matthew Podgurski</th>
<th>Haley Lyons</th>
<th>Priyanka Bishnoi</th>
<th>Tricia Dowd</th>
</tr>
</thead>
<tbody>
<tr>
<td>li.o’<a href="mailto:neill@neu.edu">neill@neu.edu</a></td>
<td><a href="mailto:m.podgurski@neu.edu">m.podgurski@neu.edu</a></td>
<td><a href="mailto:h.lyons@neu.edu">h.lyons@neu.edu</a></td>
<td><a href="mailto:p.bishnoi@neu.edu">p.bishnoi@neu.edu</a></td>
<td><a href="mailto:p.dowd@neu.edu">p.dowd@neu.edu</a></td>
</tr>
<tr>
<td>PhD Interdisciplinary Students</td>
<td>Chemical Engineering</td>
<td>Information Systems</td>
<td>Industrial Engineering</td>
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<tr>
<td>Network Science</td>
<td>Civil Engineering</td>
<td>Telecommunication Systems Management</td>
<td>Mechanical Engineering</td>
<td>Operations Research</td>
</tr>
</tbody>
</table>
Graduate Student Services (GSS)  
130 Snell Engineering

- Academics -- partner with your faculty advisor
  - Guidance on course selection = faculty advisor
  - Technical course registration assistance = student services

- Academic Probation
- Graduation Requirements

- Funded Students --
  - Stipended Graduate Assistantships, Fulbright Scholars, Fellowships – GSS administers

- International students --
  - We are your SEVIS contact in the Graduate School. We partner with the OGS Office on academic matters affecting your visa (SEVIS contact)

- Newsletters -- timely reminders, events, opportunities – check your husky email!
For Assistance
130 Snell Engineering

Student Services Walk-In Hours:

**August 30th through September 2nd**: Daily, 2:00pm to 4:00pm

**Tuesday, September 6th**: 10am-12pm

**Wednesday, September 7th through September 16th**: Daily, 10:00am to 12:00pm and 2:00pm to 4:00pm

**Beginning September 19th**: Monday, Wednesday, Thursday, 2:00pm to 4:00pm

When you visit the GSE Office, bring with you:

- Your NUID (myNEU; not on your Husky Card)
- Course information
- CRN (5-digit # identifying course section)
OSCCR’s mission is to engage the Northeastern University community in supporting, understanding, and appreciating the standards for community behavior by promoting accountability for actions, encouraging responsible decision-making, providing a space for self reflection, and instilling the values of integrity and civility.

Contact OSCCR:
Office: 204 Ell Hall   Telephone: 617.373.4390
Email: oscr@neu.edu   Twitter/Instagram: @OSCCR_NU
What is Academic Integrity?

• Honesty in your work

• Doing the work you said you did

• Providing a citation when you refer to someone else's work (paraphrasing)

• Providing a citation when you include someone else's words in your assignment (direct quotation)

• Presenting fair and true research material

• Taking a test with the knowledge in your brain, not that which you have written on a piece of paper, on your hand, in your phone, etc.
Academic Integrity

• **Cheating**: Using or attempting to use unauthorized materials, information, or study aids in any academic exercise (tests, papers, assignments, etc.).

• **Plagiarism**: Using as one's own the words, ideas, data, code, or other original academic material of another without providing proper citations or attribution.

• **Unauthorized Collaboration**: Instances when students submit individual academic works that are substantially similar to one another.

• **Participating in or Facilitating Dishonest Acts**: Any action taken by a student with the intention of gaining or helping another gain an unfair advantage.
What would happen if there was an alleged violation?

- Your instructor will ask you about your paper, assignment, test, etc.
- Your instructor will then contact OSCCR
- Staff in OSCCR will either send you a letter reminding you about the Academic Integrity policy, -OR- a meeting request to discuss the incident and review the policy
- 95% of the time, students take Responsibility for violating the policy
- In cases where a student does not take Responsibility, the case will be heard by the OSCCR staff member or a Student Conduct Board
- Sanctions can range from a written warning to Suspension or Expulsion depending on the severity of the incident, your status as a Graduate student, and disciplinary history
- The OSCCR process is separate from any decisions made about assignments or grades by the course instructor
Academic Integrity Resources

- Your Instructors
- Your Academic Advisor
- Your Teaching Assistants/Fellows
- Your Dean
- Tutors through College of Engineering
- The Library Staff (Snell)
- The International Tutoring Center (ITC)
- The Writing Center - 412 Holmes Hall, 617.373.4549, neuwritingcenter@gmail.com - NU writing instructors, graduate students, and undergraduate students studying composition theory, literature, and technical/professional writing. The center works with undergraduate and graduate students from all academic disciplines, speakers of other languages as well as native speakers of English, and weak, average, and strong writers. They also offer online consulting.
Know Your IX

Mark Jannoni
Asst. VP of Title IX Initiatives & Title IX Coordinator
Office for Gender Equity and Compliance

Northeastern University
What is Title IX?

Title IX of the Education Amendments of 1972:

• **protects** individuals from sex or gender-based discrimination in education programs and activities that receive federal financial assistance
  – i.e.: sexual harassment, sexual assault, relationship or domestic violence, and stalking
• **prohibits discrimination** against pregnant or parenting students
• includes males, females, transgender students
• worldwide protection (not geographically bound)
Prohibited Conduct Definitions

**Sexual harassment** is unwelcome conduct of a sexual nature that targets a student based on gender that limits the student’s ability to participate in or benefit from an educational program.

- i.e. VERBAL, VISUAL, PHYSICAL: unwelcome sexual advances, requests for sexual favors, rumors about sexual activity, sexual comments about people, jokes

**Sexual assault** is any form of sexual contact that occurs without consent and/or through the use of force, threat of force, intimidation, or coercion.

- A person is incapacitated and cannot consent if they lack the physical and/or mental ability to make informed, rational judgments.
Prohibited Conduct Definitions

- **Stalking** is willful and/or malicious pattern of conduct or series of acts directed at a specific person, which seriously alarms or annoys that person and would cause a reasonable person to suffer substantial emotional distress. Examples of stalking include, but are not limited to, conduct, acts or threats conducted in person, or by mail, phone, electronic communication, or social media.

- **Domestic Violence** is the intentional infliction of physical, sexual, or psychological harm on a current or former partner or spouse. Domestic Violence includes, but is not limited to, dating, intimate partner, and relationship violence.
Northeastern’s Commitment

• Sex and gender-based discrimination is illegal under federal, state, and city laws and will not be tolerated within the Northeastern community.
• University policies prohibit sexual misconduct of any kind
• University policies prohibit retaliation from individuals participating in the report of sexual misconduct

Northeastern promotes a safe and healthy living, learning, and working environment for all members of our campus community.
You are Not Alone

If you, or anyone you know, experience any form of sexual misconduct, contact any of the following:

1. Title IX Coordinator: Mark Jannoni, m.jannoni@northeastern.edu or titleix@northeastern.edu

2. NUPD: Emergency 617.373.3333; Non-Emergency 617.373.2121
   (Reporting a sexual misconduct to NUPD does NOT commit the survivor to future legal action.)

3. UHCS or CSDS Clergy for confidential support
Northeastern’s Process

- All student complaints of sex or gender-based discrimination are promptly investigated by the Office for Gender Equity and/or NUPD.
- All students are encouraged, though not required, to report incidents of sexual misconduct to NUPD.
- Student rights and remedies are provided to both parties.
- Options for resolution through University’s disciplinary processes:
  - Our Goal is to...
- Sexually harassing conduct and prevent it from reoccurring.
Student Rights

- Report the incident to the University and/or police
- Receive a University No Contact Order
- Assistance obtaining a judicial restraining/protective order
- Referrals to confidential medical, counseling, and related services on/off campus
- Alternative housing arrangements
- Change in academic/social schedules and obligations
- Option to seek disciplinary action through the University
- Discuss options of pursuing criminal charges
Confidentiality vs. Privacy

• All staff and faculty members, coaches, and RAs have a duty to report any incident of sexual misconduct to the Title IX Coordinator.
• They will limit their report to only those individuals with a need-to-know.
• The Title IX Coordinator will try to honor a request to be anonymous, when possible.
• UHCS and CSDS Clergy are exempt from reporting requirement and are confidential resources.
NU Police Department

- **Responsible for the protection of students, faculty, and staff**
- **Available 24 Hours a Day / 7 Days a Week / 365 Days a Year**
- **Many are trained Emergency Medical Technicians (EMTs), who respond to medical incidents**
- **Working together with other departments and agencies to provide a high level of safety and security for our community**

**Police Officers**
- Professional Police Officers with Full Law Enforcement Authority (Armed)

**Security Personnel**
- Professional Community Service Officers (Unarmed)

**Fire Safety Unit**
- Professional Licensed Technicians and Students (Plainclothes)

**Contract Security**
- Allied / Vanguard (Fixed Posts, Parking)
IN AN EMERGENCY

• On Campus, NUPD Contact Numbers:
  – (617) 373-3333 (Police or Medical Emergency)
  – (617) 373-2121 (Non-Emergency)

• Dialing 9-1-1:
  – From a Cell Phone:
    Boston Police or Mass. State Police will answer and ask
    – your Location
    – your Emergency
    – They will ask you to stay on the line, while they transfer your call to
      the appropriate agency
  – From a Non-University Telephone or Payphone:
    • Local Municipal Police Department will Answer and Ask Questions as
      Above
Staying Safe On and Off Campus

NU is an urban campus and is not a gated community.

- Be aware of your surroundings (especially when on the phone)
  - Trust your instincts and think about “What if...” scenarios.
- Try and avoid unknown shortcuts.
  - Stay in populated, well lit areas.
- Know the level of criminal activity in your area.
  - Research by asking your local police.
- Avoid walking alone, if possible.
- Don’t advertise your wealth.
- Let someone know where you are going.
- Use NUPD’s Personal Safety Escort.
- Learn MBTA routes and schedules.
- Save taxi company phone numbers.
- Be security conscious.
- Use “Street Smarts” (Common Sense).
- Don’t forget that you have a number of “personal weapons”
- Use COMPLIANCE when property is physically demanded of you.
- Do not post your personal information on websites.
- Make copies of all important documents (visa, passport, etc.).
Protect Your Valuables

- **NEVER** Leave your valuables unattended
- Secure all of your valuables at all times
- Document serial numbers and models numbers
- Photograph your valuables
- Keep the records in a safe place where they can be accessed
- Theft of property is one of the most preventable crimes
PROTECT YOUR LAPTOP

Use Protection That Works

STOP Security Plates:

• Create obstacles thieves cannot avoid
• Provide best opportunity for recovery
• 24 Hour International Hotline

Available for FREE!
Contact NUPD at 617.373.5402 to learn more
REMEMBER: Never leave laptops or other electronics unattended!
Most Common Crimes On-Campus

• Theft of Unattended Property
• Trespassing
• Disorderly Conduct
• Alcohol and Drug Abuses
  – Alcohol and drugs are the most common reason for campus discipline and medical transports.
  – Drug dealing on campus upsets rival drug dealers and increases the risk of serious crime such as robbery, assault, and theft.
Off-Campus Housing

• Does the entry have both an OUTER and INNER door?
  • Do they have functioning locks?
  • Are the doors kept locked?
  • Is this area well lit?
  • Is there good visibility?
  • Is there a working intercom/buzzer system?
  • Basement, roof and other doors leading to common areas:
    - Do they have locking doors? Are they locked?

• Get to know your neighbors! Knowing your neighbor, and something about their schedule means that you can watch out for each other and be more aware of events that may be out of the ordinary.
Questions?

NORTHEASTERN UNIVERSITY
POLICE DEPARTMENT
www.neu.edu/nupd
716 Columbus Avenue / 100 Columbus Place
Boston, Massachusetts

POLICE - MEDICAL EMERGENCIES 617.373.3333
SAFETY ESCORTS & NON-EMERGENCIES 617.373.2121

CONNECT WITH US ON SOCIALMEDIA

Follow us on Instagram nupd
Follow us on Twitter @northeasternpd
Follow us on Facebook facebook.com/northeasternpd
Watch us on Youtube youtube.com/northeasternpd

Questions about our department’s services should be directed to the Crime Prevention Officer:
Off. John Farrell | 617.373.5402 | j.farrell@neu.edu
President - Rini Ghosh

236 Curry Student Center
www.northeastern.edu/gsg
gsg@neu.edu
Services

• We represent your voice to the university community – sign up to be a Senator!

• GSG Individual Funding

• Join a Graduate Student Group!

• Baby Clothing Swap Service
GSG Welcome Brunch – 21st September, 2016
11 am – 2 pm
CSC Ballroom
Come meet new people, eat great food, and play board games with your new friends!
Upcoming Events:

- Grad Group Summer Ice Cream Social Sept 16, Krentzman Quad 11:30-1:30 or we run out of ice cream
What is the Electricity Consumption of a cell phone?
What is the Energy Consumption of a cell phone?
What is the **Energy** Consumption of a cell phone?
Energy Systems Society

• Who we are?  - Students, Alumni, Professionals
• What we do?  - Seminars, Workshops, Field Visits, Conference
• How it benefits?  - Sustainability, Learning, Networking, Jobs
Upcoming Events

• **Bike and Light Fair**
  Snell Library Quad
  Sept 21st

• **Energy Conference**
  Curry Student Center
  September 30th
Meeting Schedule:
Thursday, 7:00 PM - 8:00 PM, 002 East Village

OrgSync
https://orgsync.com/67744/chapter

Facebook Page
https://www.facebook.com/NUEnergySystemsSociety

Email
EnergySystemsNEU@gmail.com

“The greatest threat to our planet is the belief that someone else will save it” - Robert Swan
Thank You!

“The greatest threat to our planet is the belief that someone else will save it” - Robert Swan
Mission

The purpose of the Biotech Entrepreneurs is to instill within its members an entrepreneurial drive and strong business skills through collaboration and education in order to stimulate innovation and accelerate ideas from concepts to tangible solutions.

Our mission is to create an interdisciplinary organization that brings together ambitious and creative minds to foster critical and innovative solutions for the improvement of human health and general welfare.
Biotech Entrepreneurs
Fall Mixer

Uno’s Chicago Grill
Tuesday, September 20
7PM
Contact

Website: www.northeastern.edu/bioentrepreneurs
Facebook: www.facebook.com/neubiotech
Twitter: @neubiotech
E-mail: neubioentrepreneurs@gmail.com
What’s Next?

✓ Register for courses
✓ Attend your department/program orientation orientation
✓ Review this presentation, which will be emailed
✓ Review official acceptance letter and new student information page and take any appropriate action
✓ Check your husky and personal emails to look for important communications
✓ Get your Husky Student ID card, Curry Center, 2nd Fl.
✓ For international students, go to the OGS orientation
Complete Your Official Admissions File

- Submit original, final transcripts (and degree certificate)
- Submit official GRE & TOEFL/IELTS scores
Department/Program-Specific Orientation Sessions

- Review orientation schedule
- Locate the building and room number of your department/program-specific ahead of time

Other Orientations

- Make-up general orientation session – Sept. 22
- International student orientation – Next!
For good luck…

Rub the ears of Northeastern’s Husky mascot!

It’s a tradition…