COE by the numbers

151 tenured/tenure-track faculty

11 nationally funded research centers linked to 7 research initiatives

6100 students (3400 undergrad, 2700 graduate)

5 departments

Northeastern University College of Engineering

41 programs: 8 BS, 8 minors, 14 MS, 10 PhD, 1 certificate
Where You Come From

Across the World
Where You Come From

United States of America

Puerto Rico
2,700 Graduate Engineering Students

- Professional MS Students: 50%
- Traditional MS Students: 50%
- Doctoral Students: 20%
## GRADUATE DEGREE PROGRAMS

<table>
<thead>
<tr>
<th>Professional 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>
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<tr>
<td>Energy Systems</td>
<td>Chemical Engineering</td>
<td>Chemical Engineering</td>
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<tr>
<td>Engineering Management</td>
<td>Civil Engineering</td>
<td>Civil Engineering</td>
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<tr>
<td>Information Systems</td>
<td>Electrical &amp; Computer Engineering</td>
<td>Computer Engineering</td>
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<tr>
<td>Sustainable Building Systems</td>
<td>Electrical &amp; Computer Engineering Leadership</td>
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<tr>
<td>Telecommunication Systems Management</td>
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<td></td>
<td>Mechanical Engineering</td>
<td>Information Assurance</td>
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<td>Operations Research</td>
<td>Interdisciplinary</td>
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<td></td>
<td></td>
<td>Mechanical Engineering</td>
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<tr>
<td></td>
<td></td>
<td>Network Science</td>
</tr>
</tbody>
</table>

- Online, hybrid and evening classes available
- Engineering Leadership graduate certificate may be pursued standalone or combined with any program
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: Healthcare Systems Management (NSF/Medicare)
- VOTERS: Civil Infrastructure Assessment (NIST)
- Information Assurance (NSA/NSF)
- Subsurface Sensing & Imaging (NSF)
- Resilient Electric Energy (NSF/DOE)
- Nanoscale Multiferroic Materials (NSF)
- Biomedical Computing (NIH)
YOUR
Graduate School of Engineering

130 Snell Engineering Building

✓ Admissions
✓ Administrative Staff
✓ Student Services
✓ Co-op Education Program
✓ Online Programs
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

www.northeastern.edu/gordonleadership
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

www.northeastern.edu/gordonleadership
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
Graduate Cooperative Education (Co-op) Program Overview
Graduate Co-op

Graduate Cooperative Education is a plan of education that combines periods of academic study with a period of employment that is career and academic discipline related.
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

✓ Stipended Graduate Assistantships, Fulbright Scholars, Fellowships – GSS administers

✓ International students -- partner with the ISSI Office on academic matters affecting your visa (SEVIS contact)

✓ Newsletters -- timely reminders, events, opportunities – check your husky email!
For Other Assistance

130 Snell Engineering

Walk-In Hours **January 6th through 15th**: M-F, 10:00 am to 12:00 pm and 2:00 pm to 4:00 pm

Regular Walk-In Hours begin January 18th: Monday, Wednesday, Thursday, 2:00 pm to 4:00 pm

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)
International Student & Scholar Institute (ISSI)

Be mindful of Academics & Visa Status

- Provides information on: student immigration status, SEVIS, Co-op Employment, Employment & Tax Information, OPT/CPT.

- Get involved and participate in the ISSI community. ISSI coordinates many different activities and events.

CHECK WITH ISSI!
Academic Integrity Policy

http://www.northeastern.edu/osccr/academic-integrity-policy/

- When completing any academic assignment, a student shall rely on his or her own mastery of the subject.

- When completing any academic assignment, a student shall provide a proper citation or attribution when using another’s words, ideas, data, code, or other original academic material.

*Incidents of cheating and plagiarism are reported to the Office of Student Conduct and Conflict Resolution (OSCCR), investigated, and appropriate consequences ensue.*
Office of Student Conduct and Conflict Resolution (OSCCR)

“...policies and procedures to protect the rights of members of the University community...”

Code of Student Conduct  
www.northeastern.edu/osccr/codeofconduct/index.html

Academic Integrity Policy  
www.northeastern.edu/osccr/academicintegrity/index.html

Location: 204 Ell Hall
University Health and Counseling Services

www.northeastern.edu/uhcs/

Located in Forsyth Building, 1st Floor

Students are automatically enrolled in NUSHP.

For information: www.northeastern.edu/nushp/
Northeastern University

College of Engineering
What is Title IX?

- Title IX of the Education Amendments of 1972 prohibits discrimination on the basis of sex or gender in educational programs that are eligible for Title IV funding (e.g. federal financial aid).

- **Sexual assault, sexual misconduct, stalking, domestic/dating violence** and other forms of **sexual harassment** are considered discrimination on the basis of sex or gender and are prohibited by Title IX.

- The University is obligated to investigate reports of prohibited offenses under Title IX, remedy the effects of such offenses and take steps to prevent their recurrence.

- The University’s obligation to investigate is triggered when it knows or should reasonably know of a report of a prohibited offense.
Basic Information & Resources

- Policy on Rights and Responsibilities under Title IX and Code of Student Conduct
  
  Can be found on the University’s website

- Title IX Coordinator in the Office of Institutional Diversity and Inclusion (“OIDI”)
  
  Located in 125 Richards Hall

- Northeastern University Police Department (“NUPD”)
  
  Located in Columbus Place or at x2121

- University Health and Counseling Services (“UHCS”)
  
  Located in the Forsyth Building or at x2772

- ViSION (Violence Support, Intervention & Outreach Network)
  
  www.northeastern.edu/vision  vision@neu.edu
Students’ Rights under Title IX

- **Investigation**: NU will investigate allegations of prohibited offenses consistent with a student’s request for confidentiality.

- **Interim Remedies**: NU provides many resources to students involved in allegations of sexual assault.

- **Criminal Process**: NU will work with a student seeking to pursue criminal charges for a prohibited offense; this is an external process.

- **Disciplinary Action**: NU may take disciplinary action against any student alleged to have committed a prohibited offense.
Student Rights: interim remedies

Interim Remedies are options offered or steps taken by the University to remedy a claim of a prohibited offense. They include options for:

- On- and/or off-campus medical, counseling and other related services;
- Alternate housing arrangements;
- Altered academic class schedules and/or obligations;
- Altered student organization schedules and/or obligations;
- Alternate transportation;
- Assistance from local law enforcement;
- A University-issued no-contact order; and
- Assistance in seeking a judicial no-contact, restraining and/or protective order.

Student witnesses, respondents and victims/survivors all have options for interim remedies.
Where to report?

- Students are strongly encouraged to report allegations of prohibited offenses.

- Students may report allegations of prohibited offenses to NUPD and/or OIDI.

- Discussions with a counselor at UHCS are privileged and may not be disclosed without the student’s consent.

- Reports to counselors at UHCS may not trigger the University’s obligation to investigate a prohibited offense.

NUPD
617.373.2121

OIDI
617.373.2133

Boston Area Rape Crisis Center Hotline: 800.841.8371
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 SOCIAL MEDIA

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
NEW! Winter Welcome Brunch event on the 28th of January from 10 am to 2 pm in the CSC Ballroom. Come and enjoy a free hot brunch, meet fellow graduate students, and stick around after to play board games with old friends and new!
Upcoming Events:

• Speaker series panel events with Industry and Academic young professionals!
• Resume Lightning Round Workshop: **March 24th 2016** Northeastern Alumni Center
Northeastern University
Entrepreneurs for Biomedical Solutions
Mission

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.
Contact

Website: www.northeastern.edu/EBS
Facebook: www.facebook.com/EBSNortheastern
Twitter: @ebsnortheastern
E-mail: ebsnortheastern@gmail.com
Northeastern University
Energy Systems Society (ESS)

Presented By:
Vinoth Kumar Sekar
Rishabh Sardana
Why Energy?

• Energy and Development

• Energy and Environment

• Energy is Interdisciplinary

• Sustainability and Northeastern
  o Solar Panels
  o Pumping systems at NEU Campus
Energy Systems Society

• Who we are? - Students, Alumni, Professionals
• What we do? - Seminars, Workshops, Field Visits, Conference
• How it benefits? - Green Technologies, Sustainability, Career
Meeting Schedule:
Monday, 7:00 PM - 8:00 PM, 002 East Village

Website
http://neu.orgsync.com/org/nuess

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

Sandeep Allenki – Student Relations ESS
484-363-3262

“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
What’s Next?

- Register for courses if you received an email to do so
- Attend your department/program orientation
- Review this presentation, which will be emailed
- Review New Student TO DO Check List and take appropriate action
- Check your husky and personal emails to look for important communications
- Take a campus tour via the Visitor Center
- For international students, go to the ISSI orientation
New Student TO DO Checklist

☐ Submit original, final transcripts degree certificate)

☐ Submit official GRE & TOEFL code 3665

☐ Activate myNEU account

☐ Obtain Husky ID Card

☐ Health Form - Immunizations

☐ Request COE email account

☐ etc...
Make-Up Orientation Session

Other

✓ Make-up general GSE orientation session – January 13 at 10 am in Egan Research Center
For good luck…

Rub the ears of Northeastern’s Husky mascot!

It’s a tradition…