



NORTHEASTERN
UNIVERSITY

STUDY IN
Northeastern University (NEU)



NORTHEASTERN
UNIVERSITY



01

Introduction of NEU

02

School of Metallurgy

03

Shenyang City


04

NEU campus Life



東北大學
NORTHEASTERN UNIVERSITY

I. Introduction of NEU

A photograph of laboratory glassware, including a beaker with blue liquid, a flask with red liquid, and a graduated cylinder, set against a blurred background of a lab. A semi-transparent dark blue banner is overlaid at the bottom of the image.

About Northeastern University (NEU)



NORTHEASTERN
UNIVERSITY

- Founded in **1923**
- Top-class **national key university**
- **Comprehensive** university with multidisciplinary system
- Focus on **Engineering**
(among world top 1‰ ESI)
- **3** national key laboratories
4 national engineering research centers
3 national engineering laboratories



**About
Northeastern University
(NEU)**



**NORTHEASTERN
UNIVERSITY**

5 campuses:

- 3 in Shenyang
- 1 in city of Qinhuangdao (a coastal city near Beijing)
- 1 in Foshan.

Shenyang:

- Capital of Liaoning province
- Largest city of Northeastern China
- Birthplace of China's industry
- Known as “Ruhr of the East”

Students > 48,000 (including over 30,000 undergraduate students, 13,000 master's candidates, 4,000 doctoral candidates)

Faculty members > 4,500

A photograph of laboratory glassware, including a beaker with blue liquid, a flask with red liquid, and a graduated cylinder, set against a blurred background of a lab. A semi-transparent dark blue banner is overlaid at the bottom.

About Northeastern University (NEU)



NORTHEASTERN
UNIVERSITY

“first-class universities in China”

Affiliated to the Ministry of Education of
China and designated as one of the national
key universities

high-level scientific research achievements
(Academic Ranking of World Universities)
(2020): 301- 400



東北大學

NORTHEASTERN
UNIVERSITY



- Over **246** partner universities in **37** countries and regions
- Over **1,500** international students from **99** countries and regions every year
- Alumni over **110** countries



NORTHEASTERN
UNIVERSITY

Over 246 partner universities
in 37 countries and regions



北海道大学
HOKKAIDO UNIVERSITY



名古屋大学
Nagoya University



大阪大学
OSAKA UNIVERSITY



東北大学



경희대학교
KYUNG HEE UNIVERSITY

UNIVERSITY OF CALIFORNIA
UCRIVERSIDE



Loughborough
University



UNIVERSITY OF
CANBERRA



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

STANFORD
UNIVERSITY



The
University
Of
Sheffield.



東北大學
NORTHEASTERN UNIVERSITY

II. School of Metallurgy



東北大學 冶金學院
Northeastern University School of Metallurgy



Undergraduate Programs

- 5 Majors for Undergraduate
 - **Metallurgical Engineering**
 - Energy and Power Engineering
 - New Energy Science and Engineering
 - Environmental Science
 - Resource Recycling Science and Engineering
- Total 1835 undergraduate students

Metallurgical Engineering

- ❑ Founded in 1923.
- ❑ A state-level key discipline.
- ❑ Ranks **No.2** all over the world at present.
- ❑ There are 3 sub disciplines.
 - ❑ Ferrous Metallurgy
 - ❑ Nonferrous Metallurgy
 - ❑ Physical Chemistry Metallurgy

Undergraduate Programs

- 5 Majors for Undergraduate
 - Metallurgical Engineering
 - **Energy and Power Engineering**
 - New Energy Science and Engineering
 - Environmental Science
 - Resource Recycling Science and Engineering
- Total 1835 undergraduate students

Energy and Power Engineering

- ❑ Founded in 1952.
- ❑ Ranked **No.1** in Liaoning Province in 2015.
- ❑ 5 sub disciplines.
 - ❑ Engineering Thermophysics
 - ❑ Thermal Engineering
 - ❑ Refrigeration and Low Temperature Engineering
 - ❑ Industrial Ecology
 - ❑ Material Electromagnetic Science and Engineering



Undergraduate Programs

- 5 Majors for Undergraduate
 - Metallurgical Engineering
 - Energy and Power Engineering
 - **New Energy Science and Engineering**
 - Environmental Science
 - Resource Recycling Science and Engineering
- Total 1835 undergraduate students

New Energy Science and Engineering

- ❑ Founded in 2010.
- ❑ Focus on 4 areas.
 - ❑ Photovoltaic
 - ❑ Nuclear Power
 - ❑ Energy Battery
 - ❑ System Engineering



Undergraduate Programs

- 5 Majors for Undergraduate
 - Metallurgical Engineering
 - Energy and Power Engineering
 - New Energy Science and Engineering
 - **Environmental Science**
 - Resource Recycling Science and Engineering
- Total 1835 undergraduate students

Environmental Science

- ❑ A key discipline in Liaoning Province.
- ❑ Aimed to cultivate talents who can be engaged in the environmental fields of
 - ❑ Science,
 - ❑ Chemistry,
 - ❑ Engineering,
 - ❑ Protection Materials, and
 - ❑ Assessment & Management.



Undergraduate Programs

- 5 Majors for Undergraduate
 - Metallurgical Engineering
 - Energy and Power Engineering
 - New Energy Science and Engineering
 - Environmental Science
 - **Resource Recycling Science and Engineering**
- Total 1835 undergraduate students

Resource Recycling Science and Engineering

- ❑ Founded in 2011, a national strategic emerging industry discipline.
- ❑ Established to meet the strategic emerging industries demands.
 - ❑ Mineral Processing
 - ❑ Chemical Engineering
 - ❑ Materials Preparation
 - ❑ Environmental Protection

Graduate Programs

- 2 Majors for PhD, 4 Majors for Master

- Metallurgical Engineering (PhD & Master)
- Power Engineering and Engineering Thermophysics (PhD & Master)
- Chemical Engineering and Technology (Master)
- Environmental Science and Engineering (Master)

- 1234 graduate students, 628 post-graduate students



Graduate Programs

- 24 Areas of Metallurgical Engineering

- ❑ Physical Chemistry Metallurgy
- ❑ Electrochemical Metallurgy
- ❑ Ironmaking
- ❑ Steelmaking
- ❑ Rolling
- ❑ Non Carbon Reduction Ironmaking
- ❑ Light Metals Metallurgy
- ❑ Heavy Metals Metallurgy
- ❑ Rare Earth Metal Metallurgy
- ❑ Precious Metal Metallurgy
- ❑ Bioleaching Metallurgy
- ❑ Secondary Resources Utilization
- ❑ Environmental Protection
- ❑ Simulation and Calculation
- ❑ Optimization for Metallurgical Process
- ❑ Ferroalloys Production Technology
- ❑ Enterprise Resource Planning Systems (ERP)
- ❑ Fire Brick and Ceramics
- ❑ Nano Materials and Technology
- ❑ High Purity Metals Production
- ❑ Marine Materials and Oceanic Resource
- ❑ Advanced Carbon Materials
- ❑ New Energy Science and Engineering
- ❑ Battery and Energy Storage Technology



Graduate Programs

- 20 Areas of Power Engineering and Engineering Thermophysics

- ❑ Engineering Thermodynamics
- ❑ Flow Dynamics
- ❑ Heat Transfer Theory
- ❑ Combustion Science
- ❑ Measurements of Thermal Science
- ❑ Industrial Furnaces
- ❑ Kilns Thermal Engineering
- ❑ Systematic Energy Saving
- ❑ Energy Conversion and Utilization
- ❑ Thermal Procedure Modeling and Control

- ❑ Waste Heat Utilization
- ❑ Heat Pump
- ❑ Gas Separation
- ❑ Refrigerating
- ❑ Industrial Ecology
- ❑ Flow of Materials
- ❑ Life Cycle Assessment
- ❑ Biomass Energy
- ❑ Fuel Cell
- ❑ Nuclear Power Systems Reliability Analysis

Graduate Programs

- 10 Areas of Chemical Engineering and Technology
 - ❑ Chemical Reaction Engineering
 - ❑ Separation Engineering
 - ❑ Microbial Chemistry
 - ❑ Electrochemical Reaction Engineering
 - ❑ New Energy Materials and Technology
 - ❑ Surface Engineering and Materials Environmental Corrosion
 - ❑ Crude Oil Processing and Petroleum Products Production
 - ❑ Chemical Metallurgy and Material Chemical Engineering
 - ❑ Chemical Engineering in High Polymers
 - ❑ Inorganic and Organic Chemical Engineering
 - ❑ Catalysis Technology Catalyst



Graduate Programs

- 10 Areas of Environmental Science & Engineering
 - ❑ Solid Waste Treatment and Comprehensive Utilization
 - ❑ Environmental Materials and Materials Ecology
 - ❑ Environmental Assessment, Planning and Information System
 - ❑ Radiation Protection Technology
 - ❑ Water and Air Pollution Control Technology
 - ❑ Ecological Separation and Utilization of Superior Resources
 - ❑ Interface Technology between Mineral Resources and Environment
 - ❑ Resource System Evaluation and Optimization of Beneficiation Technology
 - ❑ Solid Waste Treatment and Comprehensive Utilization Technology
 - ❑ Comprehensive Utilization of Secondary Resources





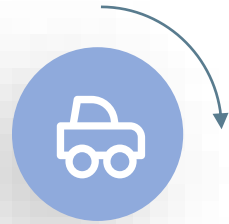
Graduate Programs

Master Degree Requirements

3 Years
30 Credits

Postgraduate Student Salary

500-3000 RMB



Doctor Degree Requirements

4 Years
12 Credits

Doctoral Student Salary

3000-8000 RMB



Contact Us



Address

NO. 3-11, Wenhua Road, Heping District,
Shenyang, P. R. China



Tel

+86-24-8367324

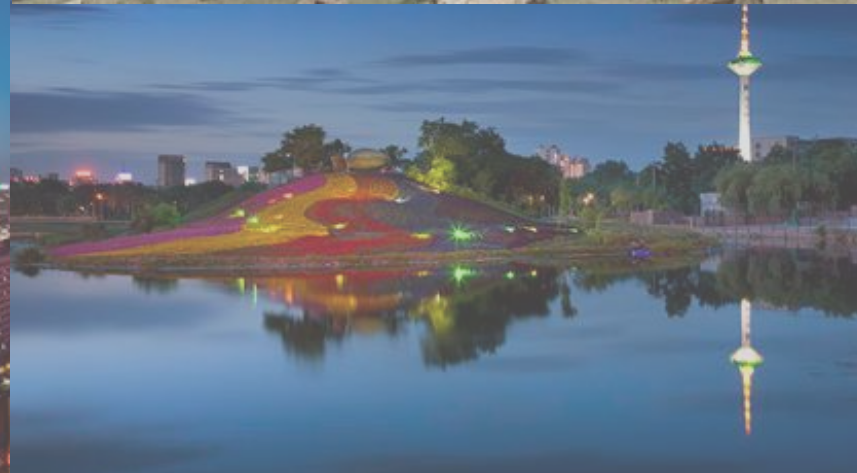
Email

lul@mail.neu.edu.cn



Please follow our Wechat to
get more information about
School of Metallurgy





III. Shenyang City

An attractive city for international students



- Shenyang is the **largest city** in Northeast China and one of China's six major and national regional centers.
- **Capital of Liaoning Province**, Shenyang has long functioned as the economic, commercial, cultural, scientific and technological center of Northeast China.
- One hour to Beijing, Two hours to Shanghai.





Good Climate

one of “the best human habitat city” by the United Nations.



*City with Long History
and Rich Culture*





A city of Entertainment





City of Shenyang

A cozy place to live in

Combination of modernity and tradition, culture and technology

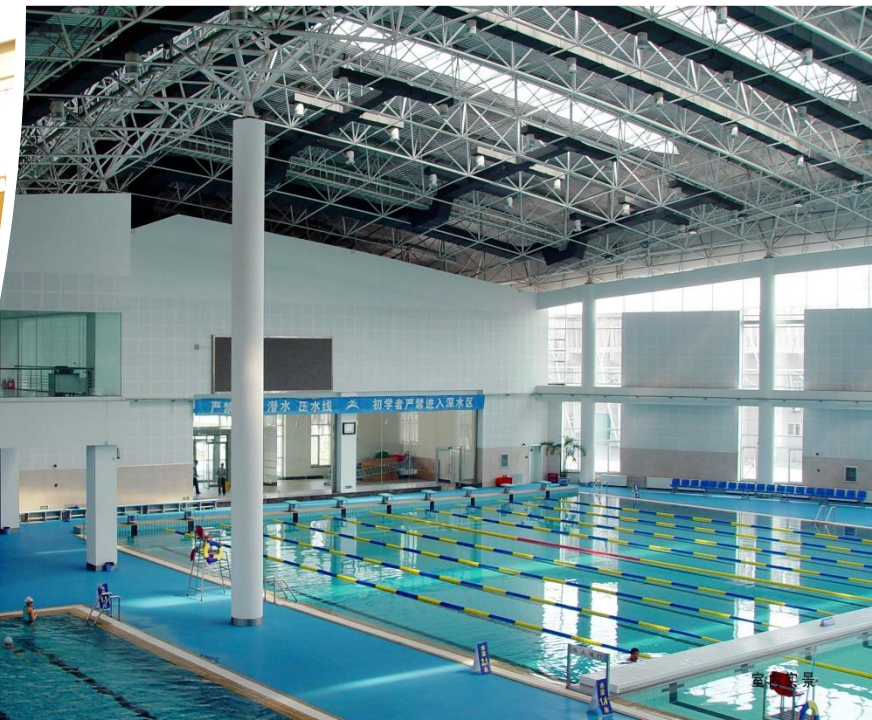


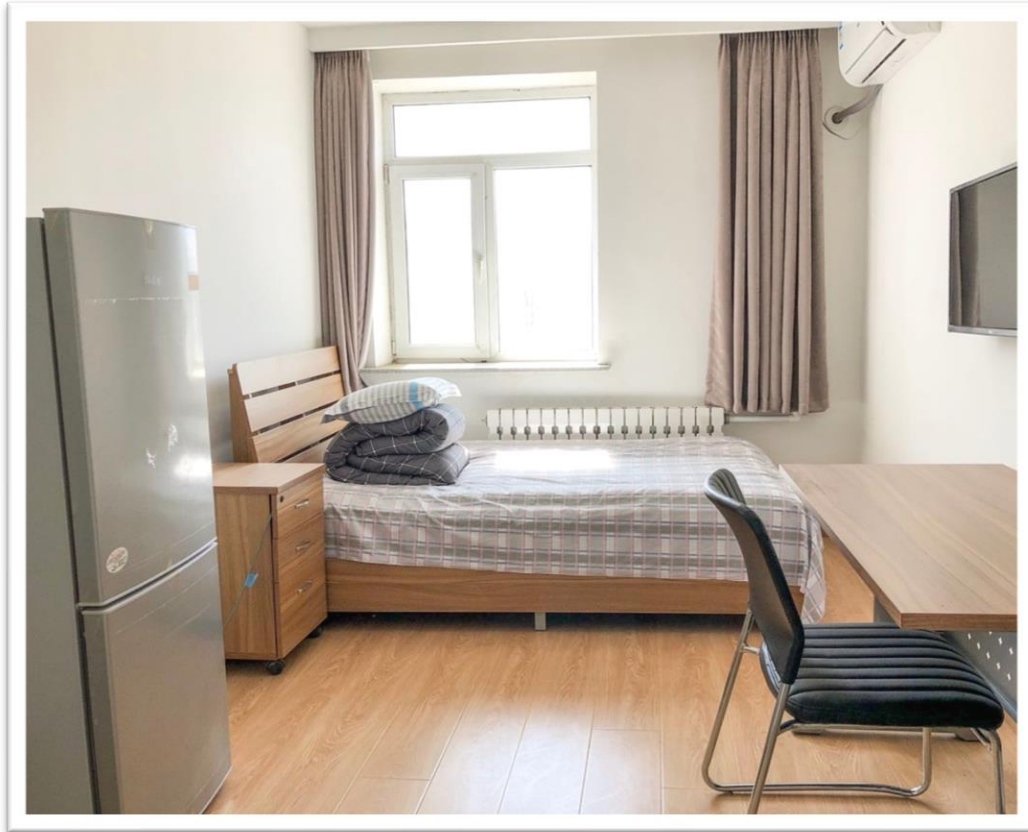
東北大學
NORTHEASTERN UNIVERSITY

IV. NEU Campus Life

Beautiful and well-equipped campus

Dorms, classrooms, libraries, swimming pool, gyms, sport fields...





The student dormitories are equipped with bathroom, TV, campus network system, refrigerator, kitchen, water heater and air conditioner. The managing staffs are available 24 hours.





Colorful
Campus Life





NEU Campus Life



NORTHEASTERN UNIVERSITY





NORTHEASTERN
UNIVERSITY

Welcome to NEU!

Contact Info

Address: NO. 3-11, Wenhua Road, Heping District, Shenyang, P. R. China

Zip code: 110819

Website: www.neu.edu.cn

Online Application portal: <http://studyinneu.neu.edu.cn/>

Tel: +86-24-23892157

E-mail: lxsh@mail.neu.edu.cn