Introduction

This elite 2+2 programme offers high-achieving students at North China Electric Power University (NCEPU) the opportunity to graduate with two degrees, one from the University of Bath, UK and the other from NCEPU, China. After two years of studying in China, students spend two years based in our top ranking Electronic and Electrical Engineering department, at one of the UK’s most prestigious universities, situated in one of the safest and historically famous cities in the country.

华北电力大学与英国巴斯大学“2+2”联合培养项目为华电优秀学子提供了获得华电与巴斯两个本科文凭的机会。经过华电两年的本科学习，学生将在巴斯这一英国最安全的历史文化名城度过本科剩余两年。巴斯大学整体实力名列英国前茅，电子与电气工程学院更是享誉全英。

Our Faculty has a strong relationship with NCEPU, welcoming MSc and PhD students in addition to the 2+2 programme. I have visited NCEPU along with colleagues, developing close working links and building friendships. I am always impressed by the enthusiasm NCEPU students have for their studies and the effort put into learning from their teachers.

In 2008, we developed this programme for NCEPU students to transfer to the University of Bath after year two of their study in China to complete a further two years of study in the UK. The students will therefore earn two degrees from two world-leading universities. Every year we are delighted to welcome students from NCEPU to the University of Bath.

I hope to welcome you to the University of Bath in the near future and share the special friendship we have with NCEPU.

Professor Gary Hawley
Dean of the Faculty of Engineering and Design

The Department of Electronic and Electrical Engineering is extremely proud of its joint education programme with NCEPU, which is one of the top universities in China. This brochure details the technical content and facilities made available to students joining our 2+2 programme and moving to Bath. Further material is available on our website, where information can be found on topics such as other degree programmes, scholarships, accommodation, welfare and student support www.bath.ac.uk/elec-eng/ug/ncepu.

Whilst engineering will be the main focus of your work, you may find it advantageous to pursue other activities, either for relaxation or for broadening your general education. Examples include:

- modules on languages, history, culture etc.
- excellent sports facilities
- social clubs
- facilities for creative arts (painting, ceramics, photography etc.)
- facilities for performing arts (theatre, dance, choir singing etc.).

Bath is a beautiful and cosmopolitan city in which to study and I am sure you will enjoy living here as much as I do. I look forward to welcoming you in the near future.

Dr Martin Balchin
Director of Studies of NCEPU programmes at Bath Engineering
The Department of Electronic & Electrical Engineering

‘University of Bath students are the most satisfied in the UK’
National Student Survey 2013

Electronic & Electrical Engineering at Bath is one of the top departments in the UK, consistently ranking very highly in league tables due to the quality of its teaching, high employability rates and the strength of its research. Currently, the Department is ranked in the UK’s Top 5 by The Times and The Sunday Times Good University Guide 2014. Our students are highly sought after by industry with 90% of graduates securing jobs within six months or continuing on to further study.

得益于优异的教学水平，高毕业生就业率以及强劲的研究实力，巴斯大学电子与电气工程学院在全英排名始终遥遥领先。2014年，学院名列泰晤士报与Sunday Times 名校指南前五名。学院毕业生受到工业界的大力追捧，90%的毕业生在6个月内找到了称心如意的工作，或选择进行深造学习。

www.bath.ac.uk/elec-eng

The University of Bath

We are one of the most successful universities in the UK, currently ranked top for Student Satisfaction (National Student Survey 2013) and recognised as the ‘Best Campus University in Britain’ (The Times and The Sunday Times Good University Guide 2014). The University is famed for its excellent academic reputation, internationally-leading research and exceptional graduate employment. It specialises in engineering, the sciences and management, attracting students from over 100 countries to create a truly cosmopolitan campus.

在2013年全英学生调查中，巴斯大学学生满意度名列全英第一。在2014年泰晤士报与Sunday Times 名校指南中，巴斯大学荣膺“全英最美大学校园”。巴斯大学强于工程、科学与管理，以其闻名遐迩的学术声誉，国际领先的研究实力，出类拔萃的学生就业吸引了来自全球100多个国家的学生，构建了一所多元化国际化的大

www.bath.ac.uk

The City of Bath

Bath is a popular tourist city due to its location and many attractions. It is only 90 minutes from London by train, close to the international airport in Bristol and just 40 kilometres from the coast.

Bath is the only city in the UK to be included in UNESCO’s world heritage list. It is named after, and famous for, its natural hot springs, which led to its being established as a thermal spa by the Romans in AD 60. Bath has plenty to offer including excellent shopping, a number of sporting venues and many museums.

巴斯交通便利，名胜众多。乘坐火车90分钟便可抵达伦敦，毗邻Bristol国际机场，西行40千米便可到达海岸线。巴斯是英国唯一一座联合国教科文组织（UNESCO）世界遗址城市。公元60年，罗马人在此建立了供其享乐的温泉浴场。巴斯因此而得名，也因此而闻名。玲琅满目的购物中心、热火朝天的体育场馆、神秘诱人的各色博物馆，散落在巴斯城的各个角落。

www.bath.ac.uk/study/ug/city

‘The safest city in the UK’
The Complete University Guide 2012
Programme details

Undergraduates who have successfully completed the first two years of an NCEPU electrical engineering programme will be considered for entry to the second year of the following BEng(Hons) programmes at University of Bath.

- Electrical Power Engineering
- Electrical and Electronic Engineering

The Group Business Design Project

The group design and business project involves students working as a team to develop an engineering device or service. Projects cover technical and business aspects of engineering and are regularly supervised by industrialists as well as key academics in the Department. Recent projects include:

- Wind turbine for University of Bath
- Micro-generation and localised power distribution
- The all-electric aircraft
- Sensors & microelectronics for medical and harsh environments
- Hybrid electric vehicles & drive-by-wire control.

The individual engineering research project

The individual project in the final year is an opportunity to work one-to-one with a member of academic staff and to use the Faculty’s research facilities. Examples of recent individual projects are:

- Fault detection for power lines
- Modelling transformers with internal short circuits
- Intelligent circuit-breaker control relay design using wavelets
- Programmable humanoid robot
- “Smart” plugs to increase energy efficiency
- High-efficiency electric motor design
- Power-system damping control
- Power-system economics
- Robot submarine (inspection)
- Finite-element electromagnetics.

NCEPU students who have successfully completed their BEng(Hons) degree will be considered for admission to our one year master’s degree programme and, in exceptional cases, for direct admission on to a sponsored PhD programme.

Entry requirements

The academic entry requirement is an average mark in excess of 70% at the time of the interviews (usually late March).

The standard English language requirement for entry to the University of Bath is a 6.0 in IELTS with no less than 5.5 in any element (reading, writing, listening, speaking) or equivalent. Students who do not achieve the necessary English standard will be required to pass the Bath ten-week English course.

Equivalent English language qualification information can be found at www.bath.ac.uk/study/ug/apply/englishlanguage.
NCEPU Students

NCEPU students already studying the 2+2 programme at the University of Bath will be available to support newcomers and share their experiences of life in the UK.

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Alumnae of NCEPU

Xiaoyan Guo, alumna of NCEPU, has
stayed at Bath and now studying for an
MSc in Electrical Power Systems.

“The programme between the
University of Bath and NCEPU
provides a great opportunity for those
who want an advanced and enjoyable
teaching experience. The lecturers at
Bath are responsible and more than
happy to help if you have any kind of
problem. The library is brilliant and is
open 24 hours a day. Bath’s Sports
Training Village has some of the best
facilities in the UK, and are used by
Olympic athletes for training. The
University is an ideal launch pad for
further study in MSc or PhD.

“As for the city, Bath is an attractive
and safe place to live, as well as
unique for its Roman baths and
buildings. It has everything you would
expect to find in larger cities, but with
a cleaner and more relaxed feel. I
would definitely recommend Bath to
others and the only advice I would
give to potential students is to bring a
camera with you when you come.”

Minghao Xu

Xiaoyan Guo

Lu Ma, alumna of NCEPU and Bath,
has continued studying at Bath as a
PhD student in the Department. Lu has
recently been awarded a prestigious
fellowship grant of up to $50k by the
Schlumberger Foundation, a non-
profit entity that supports science and
technology education. The grant aims
to support her ambition to become a
future academic.

“In

“to be honest, I didn’t consider
a profession as an electrical
engineer until I began studying
at the University of Bath. During
my undergraduate study, I was
fully involved in solving real-
life engineering problems; this
invaluable experience really helped
me to improve my communication,
organisation and time management
skills.

“It is thanks to the excellent
cosmopolitan atmosphere for
international students at the
University that I have become a
regular attendee at social activities,
where I’ve enjoyed the opportunity
to interact with many people from
different cultures.

“The Department of Electronic
& Electrical Engineering at the
University of Bath has an international
reputation for excellence in teaching,
which I have found to be true in my
personal learning experience.

“I would recommend the University
to anyone who has a dream to study
abroad in an institution renowned for
its high-quality learning and teaching.
Come along and join us; I can
guarantee it will be an unforgettable
experience!”

Xiaoyan Guo

Lu Ma

“I was one of the first students
from NCEPU to participate in
the 2+2 programme finishing my
undergraduate studies in Bath. I’m
now a final year PhD student
in the Department of Electronic
and Electrical Engineering, feeling
privileged to stay on and make the
most of my time here.

“The benefits became quickly
apparent to me shortly after I arrived;
Bath has world-leading facilities,
rigorous training programmes,
a diverse research portfolio,
good funding opportunities and
undergraduate courses accredited
by the Institution of Engineering and
Technology.

“Together with knowledgeable and
encouraging staff, my experiences
at Bath have been crucial to my
academic development, for which
I’m grateful. The city itself is clean
and safe and, being compact
and beautiful, it’s a major tourist
destination. Aside from being
historically significant, its location in
the UK is also ideal for exploring the
rest of the country.”

Lu Ma
Support network

We aim to ensure that all NCEPU students who move to Bath will receive comprehensive support from initial interview right through to graduation. To ensure that students can feel they are in a safe and secure environment, we offer:

- dedicated Director of Studies for the NCEPU programme
- dedicated International Office Support
- dedicated tutorial support for the NCEPU programme
- collection from airport and special pre-induction week at the University
- English language support
- support and advice from Year 3 and postgraduate NCEPU students
- self-contained campus with 24-hour security
- guaranteed University accommodation for the first year
- a secure environment in one of the safest cities in the UK.

We fully ensure that students from Huazhong University of Science and Technology will receive comprehensive support from the moment of the first interview to graduation. To ensure that students can feel safe and secure, we offer:

- Huazhong University of Science and Technology (NCEPU) program dedicated director of studies
- Dedicated international office support
- Dedicated tutorial support for the Huazhong University of Science and Technology (NCEPU) program
- Collection from the airport and a special pre-induction week at the University
- English language support
- Support and advice from Year 3 and postgraduate NCEPU students
- Co-habitation campus with 24-hour security
- Guaranteed University accommodation for the first year
- A secure environment in one of the safest cities in the UK.

This list is not exhaustive. Our website provides the most up-to-date information on all aspects of student life and support at Bath, from preparing for arrival to enjoying campus and city life.

Living in Bath

Guaranteed accommodation

Students in their first year at the University are guaranteed accommodation on campus, which is located in an ‘area of outstanding natural beauty’. State-of-the-art facilities include an Olympic-style Sports Training Village and the University Library, open 24 hours a day. The campus has excellent places to eat, drink and socialise. There are also two food shops, a post office, two banks, a Medical Centre and 24-hour security. There are frequent bus services to the historic city centre, which is just 3km away.

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Cost of living for one academic year is approximately £10,000 / 99,000 CNY including accommodation (will vary).

一学年的生活费用（包括住宿）大约为10,000英镑（约合人民币99,000元，随汇率变动）。

www.bath.ac.uk/study/ug/accommodation

www.bath.ac.uk/study/ug/funding/living-costs
Living in Bath

Dr Martin Balchin is Director of Studies for the NCEPU programmes and is dedicated to supporting students through their journey with us. He conducts selection interviews in China, meets students when they first arrive in the UK and oversees their welfare during their stay in Bath. Please feel free to contact him to discuss any aspects of the programme and life in the UK.

Martin Balchin博士是华电项目巴斯方面的主管，专职负责为学生提供各种支持。他将组织在中国的学生录取面试，迎接学生抵达英国，照顾学生在英国的学业起居。他将非常乐意回答有关项目细节与英国生活各个方面的问题。

Dr Martin Balchin
Senior Lecturer and Director of Studies for NCEPU programmes
Department of Electronic & Electrical Engineering

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