

IOWA STATE UNIVERSITY

DEPT. OF MECHANICAL ENGINEERING & DEPT. OF AEROSPACE ENGINEERING

International Research Experience for Graduate and Undergraduate Students on

Biomass Thermochemical Conversion & Wind Turbine Aeromechanics

Summer Intern (June 01, 2020 ~ July 17, 2020)

Iowa State University offers an intensive **8-week international research experience program in Renewable Energy and Environmental Sustainability** for graduate and undergraduate students. 4 ~ 6 fellowships are sponsored each year by National Science Foundation(NSF) as described in https://www.nsf.gov/awardsearch/showAward?AWD_ID=1826978. The students will be sent to either **North China Electric Power University (NCEPU)** in Beijing or **Shanghai Jiao Tong University (SJTU)** in Shanghai, China to carry out international collaborative researches for 8 weeks on the technical topics of **biomass thermochemical conversion (i.e., Biomass Track)** and **wind turbine aeromechanics (i.e., Wind Track)**.

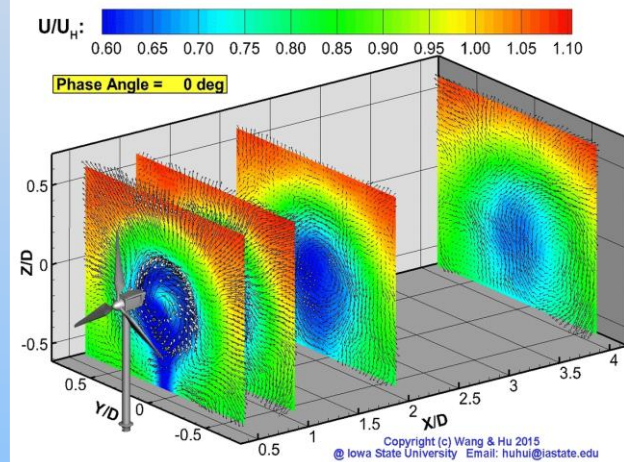
PROGRAM HIGHLIGHTS

- **One-on-one mentoring** from a faculty mentor.
- **Immersive research experience** on computational and experimental aerodynamics and thermodynamics.
- **Short courses** on Chinese language, culture and history.
- **Field trips** to Great Wall of China, Forbidden City, Summer Palace, and other famous Chinese historical sites.
- **Networking with Chinese students, staff and faculty members** at weekly "lunch and learn".

APPLICATION DEADLINE: February 01, 2020.



Biomass Thermochemical Conversion



Wind Turbine Aeromechanics



Renewable & Green Energy

STIPEND & EXPENSES COVERED

- ❖ The program starts **June 01, 2020** and ends **July 17, 2020**.
- ❖ The program provides:
 - Up to \$5,600 stipend.
 - Up to \$2,000 travel expenses.
 - Free housing and meal plan.
 - Free field trips in China.

ELIGIBILITY:

- All applicants must:
- Be a U.S. citizen or permanent resident of USA.
 - Completed Math, Physics, Thermodynamics, Aerodynamics courses.
 - GPA > 3.2.

SUBMIT APPLICATION TO:

- Dr. Xianglan Bai for "Biomass Track".
Email: bxl9801@iastate.edu.
- Dr. Hui Hu for "Wind Energy Track".
Email: huhui@iastate.edu.

FURTHER INFORMATION:

<https://www.aere.iastate.edu/~huhui/IRES-Renewable.html>

**Application Form for NSF-IRES Summer Internship
on Biomass Processing Technology & Wind Turbine Aeromechanics**

Date of Application: _____

Applicant Name: _____
First *Last*

Mailing Address: _____, _____, _____, _____
Street *city,* *State* *Zip code*

Contact Information: _____, _____
Phone number *Email address*

Education Experience: _____, _____
Institution Name *Major*

_____, _____
Current Statues (Junior, Senior, MS, PhD) *Current GPA*

Personal Information: _____, _____
USA citizenship or permanent resident? *Gender (male / female/others)*

Q1: Do you belong to any minority groups as defined by NSF? If yes, please explain

Q2: Are you applying for the Internship on “*Biomass track*” or “*Wind Energy Track*”? Have you already finished relevant courses, such as *Math, Physics, Thermodynamics and Aerodynamics*, etc...?

Q3: Have you had any research experiences or received any training related to the track you are applying for?

Q4: Do you have any past “*study abroad*” experience or travel to abroad before? Do you have any past experience related to Chinese language or Chinese culture?

Please submit this form along with your Curriculum Vitae to

- Dr. Xianglan Bai for “*Biomass Track*”. Email: bxl9801@iastate.edu
- Dr. Hui Hu for “*Wind Energy Track*”. Email: huhui@iastate.edu