



Agreement for Establishing a Joint Research Lab

1. Parties

This agreement is to establish a joint research lab between Nanjing Forestry University (hereinafter referred to as “NFU” or “Party A”) and Melentiev Energy Systems Institute of Siberian Branch of the Russian Academy of Sciences (hereinafter referred to as “ESI SB RAS” or “Party B”). Hereinafter, “both parties” is used when both universities are involved.

2. Collaboration purpose and scope

The purpose of this collaboration research lab is to promote the development of science and engineering for the utilization of renewable energy and carbon-based materials. Based on the research background of both parties, The production of syngas, fuel, functional carbon materials and even chemicals using biomass or other organic wastes as feedstock will be the main collaborating research areas. NFU will mainly focus on the experimental examinations while the advantage of ESI SB RAS is on process modeling and simulation.

3. Collaboration activities

To fulfill the collaboration purpose, the following activities will be conducted on yearly basis.

- 1) **Group to Group Meeting:** Holding at least one meeting between the two research groups to summarize the collaborative work in the past and to discuss the research plan for the next year. The lab directors or representatives are required to attend the meeting.
- 2) **Students/Staffs Exchange and Visiting:** There will be no fewer than two (2) students/staffs who visit the other party for conducting experiments, collecting information, receiving training as well as enhancing the relationship.
- 3) **Co-authorship Publication:** Publications is an important part of the output from the collaborative work. From the second year, 3-5 journal papers will be co-presented each year. A co-authorship form will be prepared, which need to be signed by all the authors before the paper manuscript is formally submitted.
- 4) **Shared Research Facilities:** All research members from both parties will have accesses to the facilities owned by the collaborative labs, including of equipment of the multi-access scientific center "High-temperature circuit".
- 5) **Project Applications & Co-research:** Each party shall be actively cooperate with the other party to apply project funding either nationally or internationally.

4. Sources of Funding and Its Use

Party A and Party B will apply for the funding from their own government agents respectively, or collectively apply for an internationally-based funding source. Both parties are required to use the funding in strict accordance with the budget and relevant regulations. Within the regulations, one party may provide financial assistance to the other party for the collaboration activities.

5. Ownership, Use, and Transfer of the Intellectual Property

Intellectual property rights (IPR) cover all results obtained within the collaboration. The IPR of common results will be shared by both parties concerned. The IPR of results obtained independently by one party without

any assistance from the other party or obtained before or after the collaboration will belong to the respective party.

Authorship and acknowledgment in papers should be based on contribution to the work and decided in discussions involving both parties concerned.

Before submitting any application for related intellectual property rights, the party should first consult with the other party and may proceed only after the other party has agreed without objection to the ownership of the IPR.

6. Duration, Amendment, and Withdrawal

This collaboration agreement is effective as of the last signature date below and is valid for five (5) years. The second term will be subject to the discussion of both parties.

The party who decides to withdraw from the collaboration before the termination date should notice the other party at least three months before the change happens. Any amendment to this agreement should be agreed by both parties.

7. Legal Validity

This agreement shall enter into force as of the date of signing, and any dispute arising from the performance of this agreement shall be settled through friendly consultations between the two parties. In case no settlement can be reached, the dispute shall be settled through arbitration or legal approach.

In witness whereof, both parties have executed this Agreement in duplicate, and each party shall retain one (1) copy thereof, respectively.

Party A: Nanjing Forestry University

Prof. Hong Zhang

Signature:



Director, Joint International Research Laboratory of Biomass Energy and
Materials

Vice President, Nanjing Forestry University

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**Party B: Melentiev Energy Systems Institute of Siberian Branch of the
Russian Academy of Sciences**

Corresponding member of the Academy of Sciences of Russia

Prof. Valery Stennikov

Signature:



Director

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Academy of Sciences

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