

**SHENYANG UNIVERSITY OF TECHNOLOGY**  
**Admission Guide for Applying for the**  
**Liaoning Government Scholarship**  
**as a doctoral student in 2012**

In order to facilitate the progress of the international student education in Liaoning Province, to expand the scale and to improve the education quality of international students, Liaoning Provincial Government has set up the ***Liaoning Government Scholarship*** fund to attract and support more excellent international students and scholars to study in Liaoning Province. The scholarship fund will mostly be used to support excellent international students and scholars to receive graduate study and earn their doctor's degrees in the qualified universities in Liaoning Province.

**I. Scholarship Amount and Coverage**

***Liaoning Government Scholarship*** is an all-around scholarship. The receiver of this scholarship must be a doctoral graduate student. The maximum duration of study is 3 years, and the scholarship support period covers the whole 3 years. The average amount of the scholarship is CNY54,000.00 (RMB54,000.00 Yuan) per year for each candidate. The amount will cover such expenses as registration fee, tuition fee, laboratory experiment expenses, internship charges, basic textbook expenditures, student apartment fee, comprehensive insurance, basic living expenses, supervisor's allowances, etc. The international travel expenses will be borne by the candidate himself/herself. A monthly payment of CNY1,500.00 will be given to each candidate for the purpose of covering the basic living expenses.

**II. Qualifications and Conditions for Applying**

1. The applicant must be a citizen of a foreign country outside of People's Republic of China, and in sound physical and mental health.
2. The applicant shall abide by the laws and decrees of the Chinese Government and the rules and regulations of the host university once accepted.

3. The applicant must have a master's degree accepted by the Ministry of Education of the People's Republic of China. As of 31st of August, 2012, the applicant must not be older than 40, i.e., the applicant must be born on or after 1st of September, 1972.

4. The applicant must have acquired excellent scores during his/her study for earning the master's degree. He/She must be recommended by two persons with the titles of professor or associate professor.

5. The applicant must communicate in English or Chinese fluently.

6. The applicant has not received any other kind of scholarship from the Chinese Government for this purpose.

### III. Applicable Disciplines and Research Fields

#### List of Supervisors, Disciplines and Research Fields

| Supervisor   | Disciplines               | Research Fields Briefing  |
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| WANG Shijie, Mr.<br>Professor, Doctor of Engineering<br>Dean of School of Mechanical Engineering<br>+86-13998816333<br>+86-24-25496889<br>wang_shijie@sut.edu.cn | Machine Design and Theory | In this field, we are mainly engaged in the research of mechanical transmission theory, design of mechanical transmission system and its control unit, precision and the efficiency of the system, wear and lubrication of the system, etc. The theoretical research results were successfully applied in the development of artificial lifting technology of petroleum. In recent ten years, serial products such as electrical-submersible-motor driven progressing cavity pumping system, friction direction-reversing pumping machine, pulley unit pumping machine and submerged motor driven plunger pumping unit are developed for 7"、5½" oil well production. These new technologies are playing important role in the exploitation of vicious oil, production on the sea platform, especially for energy saving and cost reduction. Good economical and social profits have been acknowledged at present. |
| WANG Ke, Mr.<br>Professor, Doctor of Engineering<br>+86-13904045572<br>wk2222@sina.com   | Machine Design and Theory | The theory, technique and equipment research of smooth helical curved surface milling.<br>Work on the processing theory and technique of rotor surface of screw pump and screw motor, as well as the research on special CNC  |

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|   |                   | <p>machine.</p> <p>The modern design theory and design method of CNC machine.</p> <p>Work on the design of many types of CNC machine, as well as the research on the performance and accuracy of CNC machine.</p> <p>The integrated theory and technique of CAD, CAM, measurement and CNC.</p> <p>Work on the study of many functions in one of the integrated CNC system about CAD, CAM and CNC, as well as the research on CNC system with the function of automatic position detection.</p>   |
| <p>CHEN Lijia, Mr.<br/>Professor, Doctor of Engineering<br/>Dean of School of Material Science and Engineering<br/>+86-13998299693<br/>chenlj-sut@163.com</p> | Materials Science | <p>Mainly investigate microstructures, processing technologies, mechanical properties and their relationships of light metal materials including aluminum alloys, magnesium alloys and titanium alloys, as well as microstructural evolution induced by deformation and corresponding fracture behavior.</p>   |
| <p>QIU Keqiang, Mr.<br/>Professor, Doctor of Engineering<br/>Standing Vice-director of R&amp;D Center<br/>+86-24-25499927<br/>kqqu@yahoo.com.cn</p>           | Materials Science | <p>The metastable materials including bulk metallic glasses, amorphous matrix composites, the mechanical properties of amorphous metallic materials, the thermo-processing and stability of metallic glasses, porous amorphous alloys are investigated in our group. We especially have done a lots work on magnesium based metallic glasses. The glass-forming region, such as Mg-Cu-Nd, Mg-Zn-Ca and Mg-Ni-Zn-Y alloy systems were identified in our previous work. The largest strain under compression and phase separation were observed for Mg-Ni-Zn-Y and Mg-Ni-Cu-Nd glass-forming systems respectively. Now we are investigating the principle of metallic glasses during thermo-plastic deformation.</p> <p>We also focus on investigating casting magnesium alloys with high strength and/or heat resistance. In which Mg-Sn-Sr-Si and Mg-Zn-Al-Ca-Si alloy system were successfully explored. We have found that some compositions of the two alloy systems showing good castability, mechanical properties and good creep-resistant properties.</p> |
| <p>TIAN Sugui, Mr.<br/>Professor, Doctor of Engineering<br/>+86-24-25494089<br/>Tiansugui2003@163.com</p>   | Materials Science | <p>The group mainly engaging in the research field is included as follows:</p> <ol style="list-style-type: none"> <li>1. Investigating microstructure and creep behavior of single crystal nickel-base</li> </ol>  |

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|   |   | <p>superalloy</p> <p>2. Investigating microstructure evolution of the different oriented single crystal superalloy during tensile/compressive creep</p> <p>3. Investigating the deformation mechanisms of superalloys by means of contrast analysis</p> <p>4. Investigating the microstructure and property of directional solidification, wrought and powder superalloys.</p> <p>About 180 papers had been published in the domestic and abroad Journals,<br/>Obtaining two items the second-class award and one item three-class award of Province/Ministry<br/>Obtaining two items the patent.</p> |
| <p>LIU Zheng, Mr.<br/>Professor, Doctor of Engineering<br/>+86-24-25496166<br/>zliu4321@vip.sina.com</p>  | Materials processing engineering                | (1) novel magnesium development   |
| <p>MAO Pingli, Ms.<br/>Professor, Doctor of Engineering<br/>+86-24-25497131<br/>pinglimao@yahoo.com</p>   | Materials processing engineering                | (2) high performance magnesium alloy application in automobile  |
|   |   | (3) the fatigue properties and failure analysis of magnesium alloys   |
|   |   | (4) the high speed deformation behavior and its deformation mechanism   |
|   |   | (5) the hot tearing behavior and its mechanism of magnesium alloys  |
| <p>QU Yingdong<br/>Professor, Doctor of Engineering<br/>Vic-director of Department of Science and Technology and High-tech Enterprises<br/>+86-24-25497132<br/>quyingdong@163.com</p> | Materials processing engineering                | Casting process and materials, spray forming technology, carbon fiber reinforced metal composite materials  |
| <p>YANG Junyou, Mr.<br/>Professor, Doctor of Engineering<br/>Standing Vice-Dean of School of New Power Engineering<br/>+86-24-25693401<br/>junyouyang@sut.edu.cn</p>                  | Electrical engineering                          | permanent magnet rotating or linear synchronous machines and their modern and intelligent control<br>wind turbine generator system and wind power integration, grid connection and system operational aspects<br>design and analysis of lower limb rehabilitative robot, rehabilitative evaluation  |
| <p>XU Hui, Ms.<br/>Professor, Doctor of Engineering<br/>+86-13889116010<br/>xhimage@163.com</p>   | Measuring and Testing Technology and Instrument | 1. Tomography technology based on microwave detection of reinforced concrete<br>Tomography images of steel bars and pores in a reinforced concrete are presented on the computer by use of image reconstruction techniques and microwave method and   |

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|  | nt | <p>device through external detection without destroying the structure of the test object. The research focuses on method for image reconstruction.</p> <p>2. Feature detection and extraction of human behavior<br/>Behavior recognition and individual identification can be carried out by analysis and extraction the rules from the information of human behavior by use of acceleration and vision sensors. The main research contents are the sensor installation and feature extraction methods.</p> |
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**Note:** All the above supervisors can supervise both in Chinese and English. The Surnames are in all capital letters.

### III. Necessary Documents

All the documents must be submitted either in Chinese or English. The applicant must fill out in good faith and submit the following documents.

1. Application Form for Liaoning Government Scholarship (2 original copies).

2. One notarized copy of your official transcripts certificates and notarized copies of English translations of your highest education with each application form. If studying in a university or being employed, a statement of studying or a statement of employment must be issued by the university or the employer (1 original copy and a photocopied one).

3. Studying and research plan (minimum 1,000 Chinese Characters or 2,000 English words).

4. 2 letters of recommendation from the professors or associate professors of the university the student last attended.

If the above documents are provided in a language other than Chinese or English, they must be translated into Chinese or English.

All the documents should be addressed to the Department of International Cooperation of Shenyang University of Technology.

The submitted documents will not be returned whether the applicant is accepted or not.

#### **IV. Deadlines and Procedures**

##### **DEADLINE FOR SUBMISSION OF DOCUMENTS:**

**All documents must be received by 15th of April, 2012.**

1. Application and acceptance of documents: The applicant must prepare the aforesaid full set of documents and send them to us via mail. Incomplete, and overdue documents will not be accepted.

2. Verification and review: The Department of International Cooperation will verify the qualifications and review the consistency of the documents of the applicant.

3. Evaluation and publication: The University will organize an evaluation group to appraise the prospects of the applicants, and the result will be published on the websites of the Department of International Cooperation of this University.

4. Submission and ratification: We shall submit the pre-enrollment list and the full set of documents of the approved applicants by this University to the Liaoning Provincial Department of Education before 30th of May, 2012, and to be ratified by the Provincial Government.

5. Enrollment and notification: The Liaoning Provincial Department of Education will inform us the final enrolled candidates and authorization formalities before 15th of June, 2012. We shall send the matriculate a certificate of admission, visa application form (JW202), etc. before 30th of June, 2012.

#### **V. Student Arrival and Registration**

The candidate should arrive this University on the date stipulated in the certificate of admission and finish the registration formalities. Shall the candidate not arrive this University after the due date without approval of this University, he/she will be treated as give up his/her qualification as a graduate student in this University, and his/her scholarship will be cancelled.

#### **VI. Student Review and Evaluation**

All the scholarship student must participate in the evaluation organized by the Liaoning Provincial Department of Education. The unqualified student will be stopped for further scholarship support or his/her qualification for graduate

student may be terminated.

## **VII. Contact Information**

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