Materials and Social Development

Notice

About School of Materials Science and Engineering

The School of Materials Science and Engineering provides advanced quality of teaching and research:

**Top class programs:** The School of Materials Science and Engineering consists of Department of Materials Science, Department of Materials Engineering, Department of Welding Technology and Engineering, Department of Materials Physics and Chemistry and Department of Electro-Optics and Photonics. These departments provide six undergraduate major programs: Materials Science and Engineering, Materials Forming and Control Engineering, Welding Technology and Engineering, Materials Physics, Electronic Packaging Technology, and Photoelectric Information Science and Engineering. The school also offers five master and doctoral programs: Materials Science, Materials Processing Engineering, Materials Physics and Chemistry, Optoelectronic Information Science and Engineering, Aerospace Materials and Processing. Based on those programs, there is one state-level key first-class discipline—Materials Science and Engineering. The discipline is also listed as one of the “National key disciplines of Double First-Class university project”. At present, the Materials Science and Engineering major program discipline has entered the top 1‰ of ESI ranking. Materials Processing Engineering, and Material Physics and Chemistry are two national second-class programs.

**Research resources:** The School has four key laboratories: State Key Laboratory of Advanced Welding and Joining, National Key Laboratory for Hot Precision Processing of Metals, National Key Laboratory of Space Environmental Materials Behavior and Evaluation Technology, Key Laboratory of Advanced Structure-Function Integrated Materials and Green Manufacturing Technology (Ministry of Industry and Information Technology). The school also sponsors one Material Science and Engineering postdoctoral research position.

**Teaching resources:** The School has two testing centers: State-level experimental teaching demonstration center of Materials Science and Engineering, and Analysis and testing center.
About the Summer School
The ‘Materials and Social Development’ international summer school of Harbin Institute of Technology is the first international summer school that is open to global undergraduates.

The summer school is created under multiple purposes. First, it plans to create a platform for all undergraduate students in related areas to have the opportunity to learn leading-edge materials science technology and their applications. Second, it attempts to turn the specialty of HIT on integrating aerospace science and electronic information science into the structural and functional applications. Finally, it endeavors to raise the social awareness of the recent materials science development and exert international influence. The institution will invite more than 15 international students to explore developments of materials that promote social progress. In addition to the intensive courses, the international summer school will provide the invited students with other plentiful activities.

About Faculty Members

- **Gui Wang, Ph.D.**  
  Senior Researcher, The University of Queensland, Australia  
  Invited Lecturer, Harbin Institute of Technology, P.R. China

- **Dusan Sekulic, Ph.D.**  
  Professor, University of Kentucky  
  State specially recruited expert for the “Foreign Expert Plan 1000 Professor”.  
  Visiting Professor, University of Belgrade  
  Consulting Professor, Harbin Institute of Technology

- **Yanqing Su, Ph.D.**  
  Chang Jiang Scholar  
  Professor, Harbin Institute of Technology (HIT)  
  Vice Dean, School of Materials Science and Engineering, HIT
Overview of the Program

The International Summer School will be held from July 8 to 28, 2018. It plans to enroll about 15 overseas undergraduates who major in Material science and Engineering or other disciplines related to it.
About Activities

Summer Course

Course 1: Nanostructured Materials for Biomedical Applications (16 Hours, 1 Credit)

Course 2: Aerospace Materials and Manufacturing (16 Hours, 1 Credit)

Research Practice

Materials Science and Engineering Innovation Experiment (24 Hours, 1 Credit)

Academic report

A series of lectures involving the cutting edge development in Materials Science will be held to make students have a better understanding of social progress.