

Technische Universität Dresden
Summer 2019

ADDITIONAL APPLICATION ELEMENT: IN ADDITION TO THE ITEMS REQUESTED IN THE COOPER UNION APPLICATION, APPLICANTS MUST PROVIDE A LETTER OF MOTIVATION NAMING THE INSTITUTE OR CHAIR, IN WHICH YOU WISH TO CARRY OUT YOUR RESEARCH ADDRESSED TO THE TECHNISCHE UNIVERSITÄT DRESDEN.

Please note, to participate in this program, you must be a citizen of the United States of Canada.

Scholarship

- Monthly scholarship of 800 € to cover the following costs: accommodation (approx. 250 €/month), cost of living (approx. 450 €/month), health insurance (approx. 80 €/month), accident and personal liability insurance (approx. 20 €/month), semester fee (including ticket for public transport) 260 € per semester; TU Dresden charges no tuition fees
- 600 € travel subsidy (one-time payment)

RESEARCH ACTIVITIES AVAILABLE AT TU DRESDEN

- **Faculty of Civil Engineering:** Institute of Construction Materials
- **Centre for Regenerative Therapies:** Stem cell biology and tissue regeneration
- Faculty of Economics: **International Trade, Migration and Economic Policy**
- Faculty of Electrical and Computer Engineering: **Semiconductors and Polymeric Microsystems, Biomedical Engineering**
- **Faculty of Electrical and Computer Engineering (Institute of Automation):** Model based System Analysis
- **Department of Mathematics (Institute of Mathematical Stochastics):** Sample path properties of stochastic processes; Parametrixconstruction of stochastic processes, stochastic control for Levy driven stochastic differential equations
- **Department of Mathematics [Center for Dynamics]:** Development of textile membrane for storm protection
- Department of Psychology: **Behavioural Psychotherapy, Behavioural Epidemiology, Clinical Psychology, EMental-Health**
- **Faculty of Mechanical Science and Engineering (Institute of Lightweight Engineering and Polymer Technology):**
 - Tribology-molecular effects and tribological properties of elements in tribosystems with carbon materials; Vibration and acoustical behavior of typical sandwich structures
 - Areal force introduction into fiber reinforced plastics by means of biological inspired devices

- Faculty of Mechanical Science and Engineering [Institute of Power Engineering; Chair of Hydrogen and Nuclear Energy]: **Innovative Materials in the Field of Nuclear Technology**
- Faculty of Mechanical Science Engineering: **Solid Mechanics, Materials Science and nanotechnology, complex nanomaterials**
- **Faculty of Mechanical Science and Engineering [Institute of Machine Tools and Control Engineering]**: Design and control of serial or parallel kinematics with multiple drives
- **School of International Studies**: International Politics