<table>
<thead>
<tr>
<th>Program name</th>
<th>Master’s degree program mechanization and automation of construction</th>
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<tbody>
<tr>
<td>Key facts</td>
<td>The program is designed for students with an engineering background and for those, who wish to master modern scientific research methodology to pursue a career in the field of capital construction. Scientific developments in the field of construction are aimed at developing research skills among students within the framework of an individual (innovative) project in the field of mechanization and technology for the production of building materials. Since the program is focused on the development of practical skills, students work in an accredited testing laboratory for Building Materials and Chemical Analysis of Water, the Department of Building Materials and Building Technologies, School of Engineering and Construction, SibFU. In the learning process, electronic and distance educational technologies are used. Methods of part-time and network learning with international participation are being developed.</td>
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<tr>
<td>Program length</td>
<td>2 years</td>
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<td>Starting date</td>
<td>September, 1st</td>
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<td>Language of instruction</td>
<td>Russian</td>
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<td>Prerequisites</td>
<td>• Bachelor's Degree in Construction or related areas (a copy of the diploma of previous higher education and a transcript of academic records) • Good command of English • Knowledge in Computer Science • a letter of motivation and letters of recommendation may also be required</td>
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<tr>
<td>Tuition fee per year</td>
<td>250,000 roubles (~ 3,310 USD)</td>
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<tr>
<td>Program leader/team</td>
<td>Rurik Yemelyanov, Dr. Sc. (Engineering), professor, Department of Building Materials and Building Technologies, School of Engineering and Construction, SibFU.</td>
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<tr>
<td>Qualification</td>
<td>Master of Science (Construction)</td>
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<td>Skills/objectives</td>
<td>-Formation of new areas of research and development. -Organization of research work in accordance with the thematic plan of the department. -Control over the fulfillment of contractual obligations and the conduct of research work provided for by the assignment plan. -Organization of research work in accordance with the thematic plan of the organization. -Organization of technical and methodological guidance for product design</td>
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<tr>
<td>Curriculum</td>
<td>-Research methodology; -Methods of complex mechanization of construction; -Automation and robotization of technological processes and machines in construction; -3D modeling and printing; -Planning an experiment and processing the results of experimental studies; -Technological complexes in construction; -Research seminar; -Materials science in construction; -Reliability of machines and technological equipment; -Innovative technologies in construction; -Environmental safety of construction machines; -Simulation of construction processes and machines in MATHCAD, MATLAB * SIMULINK.</td>
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<tr>
<td>Contacts</td>
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