


<p>Area of study: 11.04.03 Design Engineering and Technology of Electronic Devices Program Microelectromechanical Systems</p> <p>Degree: Master Program length and study mode: 2 years, intramural Language: Russian Credits: 120 Start date: September 1, 2020 Location: Taganrog</p> <p>Entry requirements: bachelor or specialist's degree</p>	<p>Program overview:</p> <p>Program structure: Unit 1. Natural-humanitarian and design-technological courses Unit 2. Practical training and research work Unit 3. State final certification</p> <p>Typical units of study may include:</p> <ul style="list-style-type: none"> - Mathematical modeling of devices and systems - CAD in electronics - Commercialization of research and development results - Foreign language for research work - Basics of research - Ensuring information security in information networks - MEMS - Design of thermal MEMS - High density technology for smart sensor manufacturing - Circuit design of electronic tools - Interdisciplinary project <p>Research areas:</p> <ul style="list-style-type: none"> - development of design methods and the creation of promising multi-axis integrated micro- and nanomechanical gyroscopes and accelerometers for the orientation and navigation of moving objects; - development of ultra-large integrated circuits using computer-aided design systems; - development and study of the physical and technological foundations of creating solar cells using laser and plasma technologies; - development of mathematical models, algorithms and software to optimize the production of sapphire products for micro- and nanoelectronics. 	<p>Careers: Research institutes, research and production enterprises, educational institutions, public authorities.</p> <p>Get in touch:</p> <ul style="list-style-type: none"> - Aleksandr V. Sayenko - <i>Candidate of Technical Sciences</i> - 8 (8634) 37-16-03 - avsaenko@sfedu.ru - http://vk.com/joinikes 
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