

### Academic supervisor's data

First name, Surname	Sergey Tsirel
Academic degree	Dr.Sc in Engineering
Scientific specialty of the defended dissertation	05.15.11 - Physical processes of mining production
Academic title	Senior researcher
Full name of the organization	Chief researcher of center of geomechanics and issues of mining industry
Position	Federal State Budgetary Educational Institution of Higher Education "Saint-Petersburg mining university"
Address, telephone, e-mail address	2, 21 line, St. Petersburg 199106 +7 (812) 328 82 45 tsirel58@gmail.com