



POLYTECH

Peter the Great
St. Petersburg Polytechnic
University

HUMANITIES & IT

Translate



DIGITAL LINGUISTICS



PROGRAM NAME: Digital linguistics

AWARD: Master Degree **MODE OF STUDY:** full-time **COURSE DURATION:** 2 years (4 semesters)

PROGRAM OUTLINE: This program reveals the models of language theory, Big Data analysis, theory and practice of machine translation, algorithms for automatic text improvement. The students experiment with the phenomenon of speech, voice recognition, automated text analysis, develop digital language guides and other pioneering technologies. The program is project-based and combines curriculum of two fields of study: Information technologies and Linguistics.

ENTRY REQUIREMENTS: Bachelor's, Specialist's or Master's degree in any field is required / English language proficiency - B+ (CEFR B2) / Examination in the field of Linguistics and IT / Interview with the program coordinator (Skype option is available)

CURRICULUM (GENERAL MODULES):

MODULES	ECTS
Digital resources in scientific research	3
English for Academic purposes	3
History and methodology of science	3
Project management in the field of software development	5
Machine languages	6
Big data in Humanities	6
Formal models in linguistics	4
Discourse analysis of linguistic data/ Automated data processing technologies	6
English for Specific Purposes	4
Computational linguistics	5
Python	6
Mathematical Methods in Machine Learning/ Automated data processing technologies	8
Functional and cognitive models in linguistics	6
Statistical methods of machine translation / Predictive data analytics systems	6
Automatic text processing and machine translation / Knowledge bases and methods of their design for industrial enterprises	6
Machine translation/ Development of software applications for the analysis of heterogeneous data	5
Project activities	6
Thesis	8
Internship (company project)	24
Total	120

CAREER OPPORTUNITIES: The program offers a unique opportunity to start your career in global IT companies specializing in the text search and analysis, in the startups developing new linguistic technologies. You will work in companies (businesses) and institutions dealing with applied linguistic problems and their modern solutions and in various companies operating with large amounts of unstructured text data.

POSSIBLE JOB POSITIONS: digital linguist, data scientist, architect of information systems, big data model designer, data engineer, data analyst

PARTNERS:

- NTI Center and World-Class Research Center "Advanced Digital Technologies" SPbPU
- Lappeenranta University of Technology (LUT)
- Huawei LLC
- Gazprom Neft LLC
- Translation company "Literra"
- T-Service company
- EGO Translating Company
- Translation company "Janus"
- LLC "Tetrakub"

