Welding, Related Processes and Technologies

Far Eastern Federal University

Degree or qualification is awarded: **Candidate of Sciences**

Language of study: **Russian**
Mode of study: **full-time, part-time**
Duration: **4 years**
Availability of free education: **yes**
Price: **320 000 rub a year (full-time) / 160 000 rub per year (part-time)**

Programme webpage at the university website:
https://www.dvfu.ru/upload/medialibrary/a06/%D0%9F%D0%B5%D1%80%D0%B5%D1%87%D0%B5%D0%BD%D1%8C%20%D0%BF%D1%80%D0%BE%D0%B3%D1%80%D0%B0%D0%BC%D0%BC%20%D0%B0%D1%81%D0%BF%D0%B8%D1%80%D0%B0%D0%BD%D1%82%D1%83%D1%80%D1%8B,%20%D0%BE%D0%B1%D1%8A%D1%8F%D0%B2%D0%BB%D0%B5%D0%BD%D0%BD%D1%8B%D1%85%20%D0%B2%20%D0%BD%D0%B0%D0%B1%D0%BE%D1%80%202020%20%D0%B3%D0%BE%D0%B4%D0%B0.pdf

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Opportunities for graduates of the Welding, Related Processes and Technologies program.

Graduates have good career prospects in any enterprise, because their training is multifaceted and allows them to be ready to solve all research problems at any level of production management.

Our graduates are needed by enterprises and companies engaged in the development of technological processes of welded structures, structures; repair and reconstruction of main oil and gas pipelines; manufacture and repair of ships and offshore structures; restoration and hardening of friction surfaces of parts of tribo assemblies of machines, mechanisms and equipment; non-destructive quality control of welded joints, as well as; certification of welders, etc.

The area of professional activity of graduates who have mastered the postgraduate program includes: a set of means, methods and methods of activity aimed at theoretical development and experimental research of problems associated with the creation of competitive domestic products, replenishment and improvement of the knowledge base, national technological environment, its safety, knowledge transfer ; identification and substantiation of the relevance of the problems of mechanical engineering, technological machines and equipment, their design, applied mechanics, automation of technological processes and production for various purposes, design and technological support of engineering industries, mechatronics and robotics, as well as the need to solve them on the basis of theoretical and experimental research, results which have novelty and practical value, ensuring their implementation both in production and in the educational process; creation of new (at the level of world standards) and improvement of existing technologies for manufacturing products of machine-building industries, various means of equipping them; development of new and improvement of modern automation tools and systems, technological machines and equipment, mechatronic and robotic systems, control automation systems, control and testing, design methods, mathematical, physical and computer modeling of products, technological processes and machine-building industries, tools and systems for their design -technological support based on the methods of kinematic and dynamic analysis, synthesis of mechanisms, machines, systems and complexes; work on the introduction of comprehensive automation and mechanization of production processes in mechanical engineering, contributing to an increase in the technical level of production, labor productivity, competitiveness of products, ensuring favorable conditions and safety of labor; feasibility study of new technical solutions, search for optimal solutions in conditions of various requirements for the quality and reliability of the created mechanical engineering objects.

Brief description of the content of the educational program

Disciplines studied: History and philosophy of science, Organizational and managerial foundations of higher education, Modern educational technologies in higher education, Methodology for solving scientific problems, Experimental research in the field of welding, related processes and technologies; Modern methods for determining the

performance properties of materials and coatings.

The list of partners of the educational program: Far East Zvezda Plant, Dalzavod Ship Repair Center, Khabarovsk Shipyard, Amur Shipyard, North-Eastern Repair Center.

Specializations within this programme