# Electrocrystallization of Metals in Compact and Dispersed Form

Ural Federal University named after the first President of Russia B.N. Yeltsin

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

Language of study: Russian, English Mode of study: full-time Duration: 4 years Availability of free education: no Price: For non-CIS countries: 231,700 RUB (Year 1). Discounts apply. Please consult the curator for more details

Programme webpage at the university website: https://urfu.ru/en/international/programs-and-courses/doctoral-programs-in-english/

Programme curator: **Anna Oykher** Tel.: **+7 (343) 389-97-95** E-mail: <u>postgrad@urfu.ru</u>

### **Research supervisor:**

Prof. Tatiana N. Ostanina, Doctor of Science

View profile at UrFU Research Portal

#### **Research goal:**

The research is aimed at studying the structure and regularities in formation of dendritic and spongy metal deposits with special properties for the creation of a new electrode materials and technologies (3D prototype).

### Aspects studied:

- Research on the influence of electrolysis conditions on the structural and morphological characteristics of the dispersed deposits
- Study of regularities of anode processes on active metal

### **Research highlights:**

- Prediction of dynamics of the electrodeposition and properties of dendritic deposits of metals depending on the conditions and modes of electrolysis.
- Analysis of the mechanism of anodic dissolution of metals and zinc-rich composite coatings.

### Career opportunities:

Research activities in the field of electrochemical processes and corrosion protection.

## Specializations within this programme