

Kazan Federal University

Department/division: Laboratory of Chemoinformatics

The main emphasis of the laboratory is application of chemoinformatics and artificial intelligence in areas of chemistry, especially computational drug design. Research activities of the laboratory focus on three areas: computational technologies to assist target synthesis of desired compound, development of novel performant computational drug design techniques taking into account chemical complexity, and computational material design for petroleum and polymer industry. Recently, novel technology for structure-activity relationship building based on multi-instance learning have been proposed.

Position title: Laboratory Specialist in Laboratory of Chemoinformatics

Position purpose: To help to develop multi-instance models and study their performance and interpretability.

Duties and responsibilities:

- Preparing datasets to build multi-instance models
- Building multi-instance models on a local cluster
- Interpreting obtained models
- Investigating model performance depending on tuning parameters
- Presenting results in seminar

Qualifications

Field/s of study:

- Chemistry

Level of study: doctoral

Professional competences:

- Chemistry
- Chemoinformatics
- Machine learning

Key competences/Language skills:

- English – A2-B2 – Elementary-Upper intermediate (Required)
- Russian – A2-B2 – Elementary-Upper intermediate (Required)

Key competences/Computer skills:

- Python, PyTorch

Key competences/Other:

- Communication
- Critical and analytical thinking
- Planning and organizing
- Creative thinking
- Teamwork

- Intercultural perception
- Initiative
- Reliability

How to apply

Please send CV and cover letter (in English) to Dr. Pavel Polishchuk, pavlo.polishchuk@upol.cz, by 23/04/2021 at the latest.

Facts

Economic sector: Tertiary education

Size: staff 2 001 to 5 000

Working language/s: Russian, English

Type of work placement: Traineeship

City/Country: Kazan/Russia

Earliest start date: 01/05/2021

Latest start date: 17/05/2021

Duration: 2,5 – 3 months

Working hours: 35 hours/week

Remuneration:

Financial contribution: 0 EUR/month

Contribution in kind: none

Application

Required application documents: CV, cover letter (in English) to be sent to Dr. Pavel Polishchuk, pavlo.polishchuk@upol.cz

Application deadline: 23/04/2021