

**An MSc Student position in Mass Spectrometry & Proteomics is available from September 1<sup>st</sup>, 2018 in the group of Dominik Domanski at the Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Warsaw, Poland**

An MSc (Master of Science) student is sought to work in a young and developing team focused on the development and application of novel mass spectrometry-based technologies for the improvement of cancer diagnostics. The project *“Next-generation cancer diagnostics and therapy guidance of lung and breast cancer patients using mass spectrometry-based proteomics”* is funded by the **Foundation for Polish Science First TEAM** programme, and aims to establish a research team in the field of applied mass spectrometry (MS)-based proteomics that will develop technologies which are to become practical tools for pre-clinical cancer research, and potentially enter the clinical laboratory as assays. We are specifically aiming to develop targeted-proteomics tools, for protein and phosphoprotein quantitation, to solve specific problems in breast and lung cancer patient diagnosis and treatment guidance. The MSc student will be involved in the project component responsible for assessing the retinoblastoma tumor suppressor pathway important in breast cancer to improve therapeutic targeting and personalized medicine employing novel CDK-inhibitors. We will use mass spectrometry, protein/peptide biochemistry, targeted proteomics (MRM and PRM), liquid chromatography, and bioinformatic approaches with the final aim of being able to stratify breast cancer patients to guide towards the best treatment. The study will progress from analyzing model cell lines to patient biopsies through an interdisciplinary collaboration with an oncology team from the Lady Davis Institute for Medical Research (JGH-McGill) in Montreal, Canada.

## Requirements

The successful applicant will:

- Hold a BSc degree in either Biochemistry/Biology /Chemistry/Molecular Biology (or related field to project) or will be close to obtaining it (no later than August 2018). Experience in proteomics and mass spectrometry is favorable but not required.
- Preferably have some previous practical laboratory experience.
- Be enthusiastic and highly motivated to learn and work on the project towards its set goals.
- Be able to commit full-time to the project and work towards the MSc degree.
- Be capable of working within a team as well as independently when required.
- Have good communication and interpersonal skills and be fluent in spoken and written English.
- Be well organized, eager to learn new techniques and be able to understand pertinent literature.
- Be required to discuss and report on the project to the principal investigator, including contributing to lab meetings and scientific publications.

## Our offer

- Work in an energetic and developing team in a well-equipped mass spectrometry laboratory.
- Opportunity to work on advanced MS equipment and learn novel proteomic techniques.
- Become highly skilled in the field of clinical proteomics and cancer research.
- Competitive stipend (2500 PLN net per month) funded by the Foundation for Polish Science for 3 years.

## How to apply

Send the application to [dom.domanski@gmail.com](mailto:dom.domanski@gmail.com). The title of the e-mail should be “FirstTEAM–MSc”.



The application must include in PDF format:

- Curriculum vitae
- Motivation letter
- At least one recommendation letter (ideally from applicant's BSc thesis supervisor) and contact details of the reference person
- A copy of BSc thesis or other recent scientific work/report created by the applicant

Selected applicants will be invited for an interview and asked to present their BSc thesis work.

**Application deadline: 15<sup>th</sup> of August, 2018**

**Your application must include the following statement:** "I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Personal Data Protection Act as of 29 August 1997, consolidated text: Journal of Laws 2016, item 922 as amended."