

## JOB OFFER

Position in the project:	Student
Scientific discipline:	Biostatistics / medicine
Job type (employment contract/stipend):	stipend
Number of job offers:	1
Remuneration/stipend amount/month (*X0 000 PLN of full remuneration cost, i.e. expected net salary at X 000 PLN*):	1800 PLN (net amount)
Position starts on:	1st August 2018
Maximum period of contract/stipend agreement:	20 months
Institution:	Medical University of Lodz
Project leader:	Wojciech Fendler MD., Ph.D.,
Project title:	<i>Predictive Biomarkers of Radiation Toxicity (PBRTox)</i>  <i>Project is carried out within the First TEAM programme of the Foundation for Polish Science</i>
Project description:	<p>Radiotherapy (RTx) is the mainstay of oncologic treatment. Interruptions of its course due to adverse effect markedly increase the probability of recurrence and death. Prediction of radiation-induced adverse effects is thus of crucial importance as it allows the doctors to tailor the treatment and provide supportive care to those in need. We will investigate whether a serum-borne family of biomarkers – microRNAs – can be used as biomarkers of adverse effects in patients with head&amp;neck cancers. Such individuals are group of oncologic patients with very high rates of such complications, putting them at serious risk of prognosis-altering RTx interruptions. Using a combination of clinical, laboratory and metaanalysis experiments we will propose an algorithm for RTx monitoring and identify biomarkers of radiotoxicity. Additionally, a systematic review and our own miRNA sequencing data will establish the subset of best reference miRNAs for studies on their expression in their serum. Further in depth investigation of transcription regulation of serum miRNA expression and metaanalysis of RTx biomarkers will allow for the initiation of independent projects headed by the candidate.</p>
Key responsibilities include:	<p>The team is interdisciplinary and consists of statisticians, medical doctors, IT specialists and molecular biologists. Currently we are looking for candidates proficient and willing to work in at least two areas of the project from ones listed below:</p> <ol style="list-style-type: none"> <li>1. Bioinformatic and biostatistical analysis of high-throughput databases on circulating nucleic acid expression including gene set enrichment analysis, evolutionary homology analysis, systems biology tools and data visualization</li> <li>2. Assistance in statistical analysis of clinical data of patients undergoing radiotherapy including biodosimetry analysis and predictive marker identification and model development</li> <li>3. Collection of clinical data on follow-up of patients recruited into the project's study group</li> </ol>

Profile of candidates/requirements:	<p>Given the team's interdisciplinary composition, the candidates are expected to hold a bachelors degree title in a field relevant to the project (statistics, bioinformatics) or have finished the 3<sup>rd</sup> year of medical studies, be proficient in English, and fulfill at least two of the following requirements:</p> <ol style="list-style-type: none"> <li>1. Theoretical knowledge of statistical tools for clinical and molecular data analysis including multivariate classifier development tools</li> <li>2. Basic clinical skills equivalent to a 4<sup>th</sup> year medical student, including: physical examination, medical history collection and basics of molecular biology</li> <li>3. Working knowledge of at least one major statistical package: SAS, STATISTICA, SPSS, STATA, R</li> <li>4. Documented experience of working in projects focused on molecular biology, biomarkers or clinical oncology</li> </ol> <p>Additionally, documented experience in the following areas will be considered a valuable asset:</p> <ol style="list-style-type: none"> <li>5. Experience in working with high-throughput biological data and bioinformatics tools used in the transcriptomics field</li> <li>6. Familiarity with radiation oncology procedures and principles of treatment with ionizing radiation, radiobiology and/or clinical oncology</li> </ol>
Required documents:	<ol style="list-style-type: none"> <li>1. Curriculum vitae (4 A4 pages max) documenting achievements, acquired scientific degrees, practical experience, research stays and other pertinent information</li> <li>2. Publication list</li> <li>3. Document confirming the acquired scientific degrees (or current level of education)</li> <li>4. One-page summary of the most important scientific achievement of the candidate</li> <li>5. Up to 3 pdf files documenting selected achievements</li> </ol>
We offer:	<p>Opportunity to train and develop in a rapidly developing field of cancer biomarkers and radiation oncology. A structured program of professional development through participation in a varied training course programme and research visits in Dana-Farber Cancer Institute in Boston. Opportunity to work with some of the best biomedical researchers in Poland. Flexible work time. Good funding (tax-free scholarship)</p>
Please submit the following documents to:	<p>Via the electronic system at <a href="https://services.konsta.com.pl/first-team/">https://services.konsta.com.pl/first-team/</a> by email <a href="mailto:btm@umed.lodz.pl">btm@umed.lodz.pl</a> or via mail addressed to:</p> <p>“Department of Biostatistics and Translational Medicine, 15 Mazowiecka st. 92-215 Lodz, Poland”</p> <p>Selected candidates will be asked to participate in talks held in the Applicant's Department or via teleconference calls. The talks will be held between the 14<sup>th</sup> and 29<sup>th</sup> July.</p>
Application deadline:	14 July 2018
For more details about the position please visit (website/webpage address):	<a href="http://biostat.umed.pl">biostat.umed.pl</a> or email <a href="mailto:Wojciech.fendler@umed.lodz.pl">Wojciech.fendler@umed.lodz.pl</a>
Please include in your offer: “I hereby give consent for administering my personal data included in my application to be processed for the purposes of the recruitment process under the General data Protection Regulation.”	