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From: **Jackson, Christina** <Christina.Jackson2@penmedicine.upenn.edu>

Date: Mon, Jan 16, 2023 at 11:43 AM

Subject: Research technician opportunity at Penn

To: evallen1@swarthmore.edu <evallen1@swarthmore.edu>

Hi Dr. Vallen,

My name is Christina and I recently started on faculty as an assistant professor in the department of neurosurgery. My lab is currently embedded under the umbrella of Celeste Simon's lab. I am currently looking to hire a research technician for my lab and Celeste recommended for me to reach out to you to see if you may have any students who would be interested and are good candidates.

Here is a summary of our lab's research goals.

The focus of our lab's research is at the intersection of immunology, metabolism, and brain tumor biology. The primary goal of our translational research is to understand mechanisms of immune evasion by primary malignant brain tumors and skull base tumors to generate novel immune-based therapies. We utilize a combination of high-dimensional single cell immune and genomic profiling, metabolomics, and advanced tumor organoid and mouse models, to 1) understand the role of myeloid derived suppressor cells in promoting tumor growth and T cell dysfunction, 2) elucidate the mechanisms of tumor-specific T cell exhaustion and clonal lineage of dysfunction T cells, and 3) understand how metabolic networks control immune cell function within the tumor microenvironment. Finally, our lab is uniquely integrated with the Penn Brain Tumor Center, as such, our lab is involved in evaluating immune responses in brain tumor patients undergoing immunotherapy with the goal of identifying predictors of response and new immune targets.

Thank you for your time,
Christina