Title: Linear Algebra and Multivariable Calculus Curriculum Developer
Hours: 5 hrs/week
Pay: $15/hr

Description:
The Georgia Tech Distance Math Program offers a linear algebra course to over 700 advanced high school students from across Georgia every year. As this program continues to grow and continually improve, the School of Math is expanding and refining the assessments that are used to help students learn the course content, prepare for exams, and assess their understanding of the course material.

In this part-time position you will review, develop and refine existing multivariable calculus and linear algebra assessments in a range of platforms including webwork, Canvas API, and latex. Our focus in the fall will be on reviewing and editing linear algebra and multivariable calculus exercises generated by large language models.

The position is for the Fall 2024 semester for roughly 5 hours per week at $15 per hour. The position would start August 26 and run to November 22.

Familiarity LaTeX, programming in any language, AI tools such as ChatGPT, and the content of linear algebra (eg MATH 1554) and multivariable calculus (eg – MATH 2551) is preferred. Work will be done remotely with a School of Math faculty member and a team of student assistants.

You must have an eagerness to learn, be able to review exercises for mathematical accuracy, write code in LaTeX to create learning activities, be comfortable using AI, working in a small team on a programming project, and meet in brief weekly online meetings. We will offer training and guidance on how to review curriculum and author content. We can only hire GT students for this position.

To apply, please send a single PDF file that contains a resume, a cover letter, and three to five problems from linear algebra MATH 1554 and multivariable calculus (MATH 2551) with detailed solutions to Greg Mayer, greg.mayer@gatech.edu. The exercises and their solutions should be one or two pages.