

Science and/or Engineering Instructors Sought Part Time

Overview

Tiz is an independent academic enrichment organization offering high-caliber science and engineering learning for gifted, curious primary through high school students located in Newtonville, MA: <http://theinnovationinstitute.org>.

Currently, we seek educators or child growth and development specialists to lead teach students in grades K-4 for 90 minutes or two-hour sessions held once weekly or support “lead” instructors in their role. The maximum number of students per class is 10. Classes that exceed seven students have two instructors, one in a support role (“co-instructor”). Most classes occur between 4pm to 7pm weekdays, with some from 10 am - 3 pm; classes are also offered, 9am - 4pm, Saturdays. Teaching schedules are flexible, part time, and can be customized to meet individual needs. No grading involved and minimal parental engagement—just student learning.

Tiz offers a range of courses including:

- lab-based intro to sci concepts and eng applications
- human physiology and anatomy
- microbiology and molecular biology
- neuroscience
- physics
- electrical engineering and robotics
- mechanical engineering
- chemistry and biochemistry

Our labs are equipped with PCR, gel electrophoresis, incubators, water bath, centrifuge, dry heater/stirrer, vortexers, compound (monocular and binocular) microscopes, simple digital microscope with fluorescence capacity, 3D printer, physics demo/lab equipment, etc.

Teaching at Tiz is an excellent opportunity for scientists and engineers who want to practice facilitating understanding of science and engineering and their importance in a supportive setting. Educators have a unique chance to work informally with scientists/engineers as peers, deepening their science knowledge base. Students are highly motivated, making it easy to engage in inquiry-based methods with prepared but modifiable lessons and to grow as an educator without the pressure of standardized tests or prescriptive curricula.

Requirements

We seek motivated individuals passionate and highly competent in an inquiry-based approach to teaching science and/or engineering, and who truly enjoy working with curious and motivated younger children. Formal teaching experience is **not** a prerequisite. Minimum commitment is two trimesters (22 weeks of instruction). An academic year is strongly preferred, Sept-June (33 weeks of instruction).

“Lead instructors” in our K-4 courses often have teaching experience. Successful lead instructors at Tiz foster and manage active inquiry and experimentation, creativity, and discussion. Tiz learning philosophy requires confidence and competence in facilitation, not information dissemination. “Co-instructors” are training (or trained) to be experts in science/eng education, a science or engineering subfield, or child growth and development and enjoy the opportunity to work with young people but do not have time to commit to lead a course.

Candidates will possess or have plans to work towards an MS, MD, or EdD/PhD in science, engineering, education, or child growth and development and/or already have the equivalent through work experience. Professionalism, maturity, and strong organizational skills are key. All applicants must have an intrinsic respect for children as serious learners with valuable questions and insights.

Remuneration

Instructors are paid at Tiz. Volunteers are welcome and can be provided travel stipends. We are 15 minutes from Harvard Sq., 20 minutes from HMS and 30 minutes from Union Sq., Somerville via car.

Application Process

If you are passionate about teaching science and engineering; are reliable, mature; love to learn; and are interested in making a serious commitment to enrich the lives of young people, please send your CV with an email of interest to montana@theinnovationinstitute.org. For questions, please call 617 340-9907. All candidates must agree to background checks. Professional references required.

We are an equal opportunity employer, and we do not discriminate on the grounds of race, creed, color, sex, sexual orientation, disability, or national origin in program operation or in admissions, hiring, or financial aid decisions.