

## GRADUATE ASSISTANT

### ANNOUNCEMENT OF VACANCY

POSITION: Graduate Assistant in Physics (2017-2018)

#### QUALIFICATIONS:

- **REQUIRED:** Acceptance into SUNY Cortland graduate program in: SES. Strong written and oral communication skills.
- **DESIRED:** Prior experience working with equipment commonly used in laboratories in STEM disciplines. Experience with electronics and/or electronics repair.

**RELATION TO EDUCATIONAL PROGRAM :** Students in the SES graduate program acquire a variety of technical skills, particularly in electronics and general device structure. They learn the theory and applications of equipment commonly used in the SES world as well as in physics in general. A significant part of the graduate assistant's duties (as outlined below) would be the maintenance of said equipment, as well as helping the faculty design new class experiences. As such their experience in the position has a direct effect on their education in the SES program as well as physics in general.

**RESPONSIBILITIES:** The Graduate Assistant in Physics will be responsible for:

1. Grading the weekly lab reports for the introductory level physics courses for non-majors (PHY 105/106). This is particularly important in light of the large size of these classes. This will entail weekly meetings with the primary instructor to discuss the intended learning outcomes of the lab and the associated grading rubric, scoring the labs with appropriate and timely feedback, as well as maintaining a grade book.
2. Helping the primary instructor of PHY 105/106 in managing grades, the weekly homeworks and testing (three midterm exams plus the final) for a large lecture class of 240 students. The graduate assistant will help with any facet of the course as needed.
3. Aiding the Department's full-time lecturer with lab set up and tear down with a specific focus on equipment testing and on the maintenance and repair of any equipment found to be defective. The department will be offering a total of two different introductory labs (PHY 105/106 and PHY 201/202) over 12/13 sections per week, many of which share lab space; as such the timely tear down, setup and maintenance of equipment is of the utmost importance.
4. Working with the faculty teaching the Sustainable Energy Systems courses to develop new and extend existing laboratories and project based learning exercises for the SES courses. This will entail both the design and testing of new experiments as well as help in preparing and refining the associated lab scripts in close coordination with the faculty.

The work load associated with these responsibilities will total 20 hours per week with the relative weighting between the four areas varying as needs arise during the year.

**SALARY:** \$2500 per semester and six credits of tuition support

**APPLICATION:** Completed applications with letters of recommendation must be received in the Graduate Admissions Office, SUNY Cortland, Miller Building, Room 106, Cortland, NY 13045 as soon as possible. Late applications will be accepted until the position is filled.