

# UNIVERSITY OF DALLAS

## Assistant Professor of Physics

Constantin College of Liberal Arts

Job Number: 12461UD

Date Posted: September 16, 2022

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### JOB DESCRIPTION

The University of Dallas, Constantin College of Liberal Arts, Department of Physics invites applications for a tenure-track assistant professor of physics to begin in August 2023. The applicant should demonstrate a firm commitment to undergraduate education at a liberal arts institution and will be required to teach at all levels of lectures and labs within a wide selection of physics courses, as well as developing new courses and labs. The successful candidate will be required to develop a competitive research program involving undergraduates and should demonstrate an ability to mentor undergraduates in research. Most of our undergraduate physics majors complete research projects and a senior thesis. Applicants should exhibit engaging and inclusive teaching and research practices. A Ph.D. in Physics or a related field is required at time of start date.

We are excited to consider applications from experimental physicist candidates in diverse fields including, but not limited to, nuclear physics, condensed matter, optics, electronics, materials science, biophysics, astronomy and astrophysics, however, all qualified applications will be reviewed. We are particularly interested in an ability to use computational physics in teaching and/or research programs and the potential to develop advanced courses and labs closely related to their research field. Additionally, the Department of Physics offers several items of advanced equipment for upper division labs and research, including an AFM, SEM, X-ray CT module, and has been developing a neutron lab and materials science lab in collaboration with local industries.

Any questions regarding this position can be directed to Dr. Jacob Moldenhauer at [jmoldenhauer@udallas.edu](mailto:jmoldenhauer@udallas.edu).

### PRIMARY RESPONSIBILITIES

- Teaching required Physics majors courses and labs
- Teaching required physics courses for science majors, including pre-health
- Teaching upper division electives for Physics majors with labs
- Teaching core physical science courses and labs for non-science majors
- Actively participating in the life of the Department, University and community through active public engagement, future committee work and collegial involvement
- Ability to research both autonomously and as part of a collaborative team
- Ability to develop a competitive research program involving undergraduates
- Advising undergraduate students
- Research supervision of undergraduate group members
- Ability to develop upper level labs

### MINIMUM REQUIREMENTS

- Ph.D. in Physics (or related disciplinary field)
- Experience teaching
- Commitment to teaching
- Experience mentoring undergraduate students in research

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## PREFERRED QUALIFICATIONS

- Ability to build and design a lab for research
- Ability to write grant proposals and obtain external funding
- Experience in an undergraduate institution with a liberal arts background
- Experience teaching introductory and upper division Physics courses such as condensed matter, solid state physics, optics, electronics, biophysics, materials science, nuclear physics, astronomy and astrophysics with advanced labs
- Evidence of innovative education practices

## APPLICATION

Applications for the position should be made online and must include a cover letter indicating your interest in the position, your qualifications, your research interests, and how you see yourself contributing to the mission of the University; a curriculum vitae; unofficial grade transcripts, a research plan; three letters of recommendation, and a statement of teaching philosophy. Please also include evaluations of your teaching if you have them.

***The review of applications will continue until the position is filled.***

All applications should be submitted online at: <https://hr.udallas.edu/apply/>

## WHO WE ARE

The University of Dallas is a Catholic university that seeks to educate the whole person, encouraging its students to pursue wisdom, truth and virtue as the proper and primary ends of education (<http://www.udallas.edu/about/mission.php>). All faculty members are expected to understand and support the mission. The University is home to approximately 1400 undergraduates, and its distinguished Core Curriculum emphasizes a classical curriculum in the Catholic intellectual tradition.

## BENEFITS

UD provides competitive pay and benefits, including eligibility to participate in medical, dental, life and disability insurance; employee events; a health and wellness program; a free fitness center; competitive leave programs; free tuition for employees and their families; and matching retirement plan contributions.

**The University of Dallas seeks to recruit, develop, and retain faculty, staff and administration of the highest caliber.**

**The University is an Equal Opportunity Employer, and encourages applications from female and minority candidates and others who will enhance our community and advance our Mission.**