

## Postdoctoral Fellowship in Materials Science

Constantin College of Liberal Arts

Job Number: 9800UD

Date Posted: October 22, 2020

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### JOB DESCRIPTION

The University of Dallas, Constantin College of Liberal Arts, Departments of Physics and Chemistry invites applications for a postdoctoral fellow in the field of materials science. This is a one-year position covering calendar year 2021 and will require both teaching and research. Salary will be commensurate with experience. A Ph.D. in physics, chemistry, or another field relating to materials science will be required. Applicants from both industry and academia are encouraged to apply.

This position will explore thin films on zirconia-based thermal barrier coatings. This research topic is sponsored by the DoD with application to gas turbine engines, though additional applications to nuclear reactor safety will also be explored. Experience in materials science is not required to apply, though experience operating a scanning electron microscope and familiarity with other analytical chemistry measurements are encouraged. You will be further encouraged to work with undergraduate researchers and collaborators from industry as well as to lead the publication of results.

You will also teach one undergraduate course and one lab in their field of expertise (condensed matter, solid-state physics, materials science, statistical mechanics, physical chemistry, etc.) during the Spring 2021 and Fall 2021 semesters.

### PRIMARY RESPONSIBILITIES

- Ability to research both autonomously and as part of a collaborative team.
- Research supervision of undergraduate group members.
- Lead peer-reviewed publication of research results.
- Teaching required of one advanced physics or chemistry course per semester, to include a corresponding lab course.

### MINIMUM REQUIREMENTS

- Ph.D. in Physics, Chemistry (or related disciplinary field)
- Commitment to teaching

### PREFERRED QUALIFICATIONS

- Experience with analytical chemistry and physics techniques, especially operation of a scanning electron microscope.
- Experience teaching upper level Physics or Chemistry such as condensed matter, solid state physics, materials science, statistical mechanics, physical chemistry or other 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, and your research interests; curriculum vitae; and a statement of teaching philosophy. Please also include evaluations of your teaching if you have them. Letters of reference and writing samples are not required at this stage but may be requested later. The review of applications will begin on November 1st, 2020 and continue until the position is filled.

All applications should be submitted online at:

<https://hr.udallas.edu/apply/>

Any questions regarding this position can be directed to Ms. Paula Asaff at [physics@udallas.edu](mailto:physics@udallas.edu).

## **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.

## **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.**