

# POSITION OPENING

CHICO STATE | ENTERPRISES

25 Main Street, Suite 206 | Chico, California 95928-5388 | Phone 530-898-6811 | Fax 530-898-3391 | [www.csuchico.edu/cse](http://www.csuchico.edu/cse)

**POSITION:** Inorganic/Materials Chemistry Postdoctoral Fellow

Full-Time / Benefited / Hourly / Non-Exempt

**RECRUITMENT ID:** 818

**REPORTS TO:** Department of Chemistry and Biochemistry

**COMPENSATION:** \$21.63 - \$25 per hour

**LOCATION:** This position will be a combination of in office and remote work. Candidate must be a California resident at the start of the position.

**Funding is not available for international sponsorship with this position**

**GENERAL PURPOSE:** We are seeking a two-year Postdoctoral Fellow to develop materials chemistry solutions for energy conversion and device applications to join the Department of Chemistry and Biochemistry at the California State University, Chico, a primarily undergraduate institution! The selected applicant will be NSF-funded for two years and will focus on design, synthesis, and characterization of coordination compounds based on inorganic, organic, and heterocyclic systems. A special emphasis will be on growing crystalline films and interpreting data obtained from quartz crystal microbalance and X-ray diffraction data. Characterization of the compounds by XRD, SEM, AFM, Raman, and Fourier-transform infrared spectroscopies will be required. This work will lead to the potential for publications in chemistry/materials journals as well as applications in projects with renewable energy missions. The Postdoctoral Fellow will also be expected to work with and mentor undergraduate research students. The project involves the exploration of thermodynamics, surface chemistry, and/or charge transport with solid-state materials. Review of applications will start on **Friday, January 14, 2022**.

**ESSENTIAL JOB FUNCTIONS:** The major duty of the Postdoctoral Fellow is to conduct experimental research in the laboratory, under the supervision of the PI. More specifically, the job duties *tentatively* include the following:

- Design and implement research protocols; adapt new procedures, methods, or instrumentation relative to research procedures
- Collect, prepare, and analyze research data; keep a detailed notebook summarizing experiments and recording research data
- Publish in innovative research high-level peer-reviewed leading technical journals, present cutting-edge research at technical conferences
- Oversee laboratory safety and equipment maintenance of QCM, PXRD, AFM, and Raman
- Supervise other personnel in the laboratory and coordinate research efforts for increased efficiency; participate in training of students and volunteer workers as needed
- Assist with ordering and procurement of supplies and equipment and with general maintenance of laboratory

**EMPLOYMENT STANDARDS:**

**Required:**

#### DISCLOSURE OF CAMPUS CRIME STATISTICS

CSU, Chico's Annual Security Report includes summaries of institutional policy relating to campus safety, drug and alcohol use, sexual assault, and other matters. The report is published in compliance with the Clery Act and includes three years of certain crime statistics that occurred in Clery Act defined geography. A paper copy of the report may be requested in person at CSU, Chico Police Department or by calling (530) 898-5555. It is also available on the web at 2020 Annual Security Report.

#### AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER

Chico State Enterprises is an Equal Opportunity Employer and does not discriminate against persons on the basis of race, religion, color ancestry, age, disability, genetic information, gender, gender identity, gender expression, marital status, medical condition, National origin, sex, sexual orientation, covered veteran status, or any other protected status. It is the Enterprises' policy to hire only United States citizens and aliens lawfully authorized to work in the United States. All new employees must provide proof of identity and authorization to work. Prospective applicants with a disability may request and receive reasonable accommodation during the application and selection process.

- PhD, earned within 5 years prior to employment, in chemistry, materials science, chemical engineering, material science engineering, solid state physics, or related field
- Laboratory experience in mechanistic studies of surface chemistry reactions
- Experienced in the following instruments and data analysis: XRD, SEM, AFM, Raman, FT-IR, UV-vis
- Record of independent research, publications, and conference presentations
- Excellent oral and written communication skills

**Preferred:**

- Strong Academic background
- Experience in using QCM and two/four-point probe measurements
- Record of interdisciplinary research collaborations
- Extensive laboratory experience working with a wide range of inorganic synthesis, surface chemistry, and/or device physics
- Technical experience and a proven publication record in the areas of inorganic surface chemistry, ideally related to metal oxide or gold chemistry
- Experience with materials synthesis and characterization techniques
- Knowledgeable about methodologies to explore the surface chemistry thermodynamics and device physics
- Familiarity with and a willingness to explore connections between materials science, surface chemistry, and device physics
- Candidate must be in possession of valid driver's license and automobile liability insurance. Participation in the DMV Employer Pull Notice Program (driving record) is required. The candidate will be required to update their insurance with Chico State Enterprises Human Resources when necessary.
- Satisfactory completion of a background check (including a criminal records check) is required for employment. Chico State Enterprises will make a conditional offer of employment, which may be rescinded if the background check reveals disqualifying information, and/or it is discovered that the candidate knowingly withheld or falsified information. Failure to satisfactorily complete the background check may affect the continued employment of a current Chico State Enterprises employee who was conditionally offered the position.
- CSE is collecting information from current employees and new hires in process to comply with this [CSU system policy](#). Job candidates who receive a contingent offer of employment will be required to complete a self-certification process prior to receiving a final offer of employment. A candidate will be asked to certify whether they are fully vaccinated, are in the process of becoming fully vaccinated, will request a medical or religious exemption, or do not plan to access any campus/CSE facilities or participate in any in-person work. Questions regarding this process should be directed to the CSE HR team at [csehr@csuchico.edu](mailto:csehr@csuchico.edu).

**BENEFITS:** Benefits for employees working 30 hours or more per week include employer paid life insurance (\$50,000) and long-term disability; options for health, dental, and vision insurance; FSA; 14 paid holidays including 1 personal holiday; vacation accrual (initially 10 days/year); sick leave (up to 12 days/year); employer contributions to your 403(b) retirement plan (up to 8%).

**HOW TO APPLY:**

To be considered, submit the following documents. Application review begins **January 14, 2022**.

- CV or Resume

**BY DROP BOX:** <https://csuchico.app.box.com/f/51cbcd7fc32d4c6cab7f5ad1fca9206b>

or

**BY EMAIL:** [csejobs@csuchico.edu](mailto:csejobs@csuchico.edu)

**DISCLOSURE OF CAMPUS CRIME STATISTICS**

CSU, Chico's Annual Security Report includes summaries of institutional policy relating to campus safety, drug and alcohol use, sexual assault, and other matters. The report is published in compliance with the Clery Act and includes three years of certain crime statistics that occurred in Clery Act defined geography. A paper copy of the report may be requested in person at CSU, Chico Police Department or by calling (530) 898-5555. It is also available on the web at 2020 Annual Security Report.

**AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER**

Chico State Enterprises is an Equal Opportunity Employer and does not discriminate against persons on the basis of race, religion, color ancestry, age, disability, genetic information, gender, gender identity, gender expression, marital status, medical condition, National origin, sex, sexual orientation, covered veteran status, or any other protected status. It is the Enterprises' policy to hire only United States citizens and aliens lawfully authorized to work in the United States. All new employees must provide proof of identity and authorization to work. Prospective applicants with a disability may request and receive reasonable accommodation during the application and selection process.

Paper applications will not be accepted; however, Chico State Enterprises is an Equal Opportunity Employer and is happy to provide reasonable accommodations to applicants at any step of the application process. If you need assistance in this regard, or are having technical difficulties, please contact the Human Resources office at 530-898-6811 or [csejobs@csuchico.edu](mailto:csejobs@csuchico.edu) prior to 5:00 pm on the document deadline date. The employer is Chico State Enterprises, a non-profit corporation serving as an auxiliary organization of California State University, Chico. Employment is considered to be at-will.

#### **DISCLOSURE OF CAMPUS CRIME STATISTICS**

CSU, Chico's Annual Security Report includes summaries of institutional policy relating to campus safety, drug and alcohol use, sexual assault, and other matters. The report is published in compliance with the Clery Act and includes three years of certain crime statistics that occurred in Clery Act defined geography. A paper copy of the report may be requested in person at CSU, Chico Police Department or by calling (530) 898-5555. It is also available on the web at 2020 Annual Security Report.

#### **AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER**

---

Chico State Enterprises is an Equal Opportunity Employer and does not discriminate against persons on the basis of race, religion, color ancestry, age, disability, genetic information, gender, gender identity, gender expression, marital status, medical condition, National origin, sex, sexual orientation, covered veteran status, or any other protected status. It is the Enterprises' policy to hire only United States citizens and aliens lawfully authorized to work in the United States. All new employees must provide proof of identity and authorization to work. Prospective applicants with a disability may request and receive reasonable accommodation during the application and selection process.

---